

Appendix A: Survey Materials

DLNR Trail and Park User Census

DLNR High Use Trail and Park Census

Survey Procedure and Method Reference Sheet

Database Codebook



DLNR Trail and Park User Census

Island: _____ Trail: _____ Weather: _____

Refused ☐

Date: _____ Time: _____ Observed By: _____

Observation # _____

Total # in Party:

Commercial Group?

Yes

IF YES, STOP! DO NOT INTERVIEW!!!

No

Other Activity:

- ☐ a. Bicycling
- ☐ b. Hunting
- ☐ c. Fishing
- ☐ d. Horseback riding
- ☐ e. ATV/4-wheel driving
- ☐ f. Cultural Practices

1. What did you bring with you today?

1 2 3 4

- ☐ ☐ ☐ ☐ a. Backpack
- ☐ ☐ ☐ ☐ b. Water
- ☐ ☐ ☐ ☐ c. Food
- ☐ ☐ ☐ ☐ d. First Aid Kit
- ☐ ☐ ☐ ☐ e. Cell Phone
- ☐ ☐ ☐ ☐ f. Map
- ☐ ☐ ☐ ☐ g. Rain Gear
- ☐ ☐ ☐ ☐ h. Flashlight
- ☐ ☐ ☐ ☐ i. Whistle
- ☐ ☐ ☐ ☐ j. Walking Stick

2. What was your primary reason for going hiking today?

1 2 3 4

- ☐ ☐ ☐ ☐ a. Exercise/Physical Activity
- ☐ ☐ ☐ ☐ b. Experience Nature
- ☐ ☐ ☐ ☐ c. Traditional/cultural
- ☐ ☐ ☐ ☐ d. Spend time with a friend
- ☐ ☐ ☐ ☐ e. See the attraction/view
- ☐ ☐ ☐ ☐ f. Other

3. How did you access the trail/park?

1 2 3 4

- ☐ ☐ ☐ ☐ a. Car
- ☐ ☐ ☐ ☐ b. Bus
- ☐ ☐ ☐ ☐ c. Bike
- ☐ ☐ ☐ ☐ d. Walked
- ☐ ☐ ☐ ☐ e. Taxi
- ☐ ☐ ☐ ☐ f. Other

4. How did you learn about the trail?

1 2 3 4

- ☐ ☐ ☐ ☐ a. Word of Mouth _____
- ☐ ☐ ☐ ☐ b. Trail Guidebook _____
- ☐ ☐ ☐ ☐ c. Internet _____
- ☐ ☐ ☐ ☐ d. Hotel/visitor activity desk _____
- ☐ ☐ ☐ ☐ e. Government Office _____
- ☐ ☐ ☐ ☐ f. Other _____

5. Is this your first time on this trail?

1 2 3 4

- ☐ ☐ ☐ ☐ a. Yes
- ☐ ☐ ☐ ☐ b. No

6. Have you hiked other Hawaii trails?

1 2 3 4

- ☐ ☐ ☐ ☐ a. Yes
- ☐ ☐ ☐ ☐ b. No

7. How many times have you been hiking in the past 30 days?

1 2 3 4

- ☐ ☐ ☐ ☐ a. 0
- ☐ ☐ ☐ ☐ b. 1 – 2
- ☐ ☐ ☐ ☐ c. 3 or more

8. Footwear

1 2 3 4

- ☐ ☐ ☐ ☐ a. Hiking Boots
- ☐ ☐ ☐ ☐ b. Running Shoes
- ☐ ☐ ☐ ☐ c. Slippers
- ☐ ☐ ☐ ☐ d. Tevas/Athletic Sandals
- ☐ ☐ ☐ ☐ e. Other

9. How far did you hike today?

1 2 3 4

- ☐ ☐ ☐ ☐ a. To the end _____
- ☐ ☐ ☐ ☐ b. Part of the way _____
- ☐ ☐ ☐ ☐ c. To the attraction _____
- ☐ ☐ ☐ ☐ d. Other _____

10. Did you inform someone (not with you) of your planned hike/route?

1 2 3 4

- ☐ ☐ ☐ ☐ a. Yes
☐ ☐ ☐ ☐ b. No

11. Did you inform them of an estimated return time?

1 2 3 4

- ☐ ☐ ☐ ☐ a. Yes
☐ ☐ ☐ ☐ b. No

12. What hazards did you expect to encounter on this trail (check all that apply)?

- | | | | |
|---|---|---------------------------------------|-------------------------------|
| <input type="checkbox"/> rockfall | <input type="checkbox"/> falling branches | <input type="checkbox"/> steep cliffs | <input type="checkbox"/> none |
| <input type="checkbox"/> flashflood | <input type="checkbox"/> washed out trail | <input type="checkbox"/> bugs/insects | |
| <input type="checkbox"/> slippery trail | <input type="checkbox"/> sunburn/heat | <input type="checkbox"/> other | |

13. Have you ever gotten lost while hiking?

1 2 3 4

- ☐ ☐ ☐ ☐ a. Yes
☐ ☐ ☐ ☐ b. No

14. Did you leave the trail today?

1 2 3 4

- ☐ ☐ ☐ ☐ a. Yes
☐ ☐ ☐ ☐ b. No

15. Did you notice the signs on the trail?

1 2 3 4

- ☐ ☐ ☐ ☐ a. Yes
☐ ☐ ☐ ☐ b. No

16. If yes, what information do you remember?

- | | | |
|--|---|---|
| <input type="checkbox"/> a. Name | <input type="checkbox"/> d. Don't leave trail | <input type="checkbox"/> g. Hazard warning sign |
| <input type="checkbox"/> b. Distance | <input type="checkbox"/> e. Restoration Area | <input type="checkbox"/> h. Directional |
| <input type="checkbox"/> c. Mile Markers | <input type="checkbox"/> f. Clean your boots | <input type="checkbox"/> i. Other _____ |

17. What level of difficulty would you rate the trail?

1 2 3 4

- ☐ ☐ ☐ ☐ a. Difficult
☐ ☐ ☐ ☐ b. Intermediate
☐ ☐ ☐ ☐ c. Easy
☐ ☐ ☐ ☐ d. Don't know

18. Was the trail easier or harder than you thought it would be?

1 2 3 4

- ☐ ☐ ☐ ☐ a. Easier
☐ ☐ ☐ ☐ b. Harder
☐ ☐ ☐ ☐ c. Same

19. Would you consider yourself a:

1 2 3 4

- ☐ ☐ ☐ ☐ a. Beginning
☐ ☐ ☐ ☐ b. Intermediate
☐ ☐ ☐ ☐ c. Advanced hiker

20. Are you regularly active? (Regularly active = 30 minutes or more a day, on at least four (4) or more days a week.)

1 2 3 4

- ☐ ☐ ☐ ☐ a. Yes
☐ ☐ ☐ ☐ b. No

21. How many hours a week do you exercise?

1 2 3 4

- ☐ ☐ ☐ ☐ a. 0
☐ ☐ ☐ ☐ b. 1-4
☐ ☐ ☐ ☐ c. 5-10
☐ ☐ ☐ ☐ d. 10+

22. What other types of exercise do you do?

- | | | | | | |
|---|--------------------|---|-----------------------|---|-------------|
| 1 2 3 4 | | 1 2 3 4 | | 1 2 3 4 | |
| <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | a. Walking | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | e. Gardening | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | i. Aerobics |
| <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | b. Jogging/Running | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | f. Swimming | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | j. Tennis |
| <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | c. Golf | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | g. Biking | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | k. Surfing |
| <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | d. Weightlifting | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | h. Competitive Sports | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | l. Other |

23. Do you have children?

- 1 2 3 4
- ☐ ☐ ☐ ☐ a. Yes
- ☐ ☐ ☐ ☐ b. No

28a. If yes, do you hike with your children?

- 1 2 3 4
- ☐ ☐ ☐ ☐ a. Yes
- ☐ ☐ ☐ ☐ b. No

24. Do you smoke?

- 1 2 3 4
- ☐ ☐ ☐ ☐ a. Yes ____ packs per day, ____ years been smoking
- ☐ ☐ ☐ ☐ b. No

Demographics

25. Sex

- 1 2 3 4
- ☐ ☐ ☐ ☐ a. Male
- ☐ ☐ ☐ ☐ b. Female

26. Ethnicity

- 1 2 3 4
- ☐ ☐ ☐ ☐ a. Caucasian
- ☐ ☐ ☐ ☐ b. Hawaiian/Part Hawaiian
- ☐ ☐ ☐ ☐ c. Chinese
- ☐ ☐ ☐ ☐ d. Filipino
- ☐ ☐ ☐ ☐ e. Japanese
- ☐ ☐ ☐ ☐ f. Korean
- ☐ ☐ ☐ ☐ g. Samoan/Tongan
- ☐ ☐ ☐ ☐ h. Black/African American
- ☐ ☐ ☐ ☐ i. Native American
- ☐ ☐ ☐ ☐ j. Vietnamese
- ☐ ☐ ☐ ☐ k. Asian Indian
- ☐ ☐ ☐ ☐ l. Portuguese
- ☐ ☐ ☐ ☐ m. Guamanian/Chamorro
- ☐ ☐ ☐ ☐ n. Mixed/non-Hawaiian
- ☐ ☐ ☐ ☐ o. Other
- ☐ ☐ ☐ ☐ p. Don't know/not sure
- ☐ ☐ ☐ ☐ q. Refused

27. Age

- 1 2 3 4
- ☐ ☐ ☐ ☐ a. <12
- ☐ ☐ ☐ ☐ b. 12-18
- ☐ ☐ ☐ ☐ c. 18-24
- ☐ ☐ ☐ ☐ d. 24-34
- ☐ ☐ ☐ ☐ e. 35-44
- ☐ ☐ ☐ ☐ f. 45-54
- ☐ ☐ ☐ ☐ g. 55-64
- ☐ ☐ ☐ ☐ h. 65+

28. Are you a Hawaii resident?

- | | |
|---|---|
| <input type="checkbox"/> Yes: Zip Code _____ | <input type="checkbox"/> Yes: Zip Code _____ |
| <input type="checkbox"/> No: State/ Country _____ | <input type="checkbox"/> No: State/ Country _____ |
| <input type="checkbox"/> Yes: Zip Code _____ | <input type="checkbox"/> Yes: Zip Code _____ |
| <input type="checkbox"/> No: State/ Country _____ | <input type="checkbox"/> No: State/ Country _____ |

29. Occupation

- 1 2 3 4
- ☐ ☐ ☐ ☐ a. Student
- ☐ ☐ ☐ ☐ b. Military
- ☐ ☐ ☐ ☐ c. Retired
- ☐ ☐ ☐ ☐ d. Employeed
- ☐ ☐ ☐ ☐ e. Unemployeed

Additional Comments:

DLNR High Use Trail and Park Census

DEPARTMENT OF LAND & NATURAL RESOURCES
State of Hawai'i



Island: _____ Trail: _____ Weather: _____ Refused ☐
Date: _____ Time: _____ Observed By: _____

Total # in Party:

Commercial Group?

- ☐ Yes IF YES, STOP! DO NOT INTERVIEW!!!
☐ No

30. What did you bring with you today?

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|------------------|
| 1 | 2 | 3 | 4 | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | k. Backpack |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | l. Water |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | m. Food |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | n. First Aid Kit |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | o. Cell Phone |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | p. Map |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | q. Rain Gear |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | r. Flashlight |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | s. Whistle |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | t. Walking Stick |

31. What was your primary reason for going hiking today?

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------|
| 1 | 2 | 3 | 4 | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | g. Exercise/Physical Activity |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | h. Experience Nature |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | i. Traditional/cultural |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | j. Spend time with a friend |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | k. See the attraction/view |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | l. Other |

32. How did you access the trail/park?

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|-----------|
| 1 | 2 | 3 | 4 | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | g. Car |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | h. Bus |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | i. Bike |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | j. Walked |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | k. Taxi |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | l. Other |

33. How did you learn about the trail?

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------------------|
| 1 | 2 | 3 | 4 | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | g. Word of Mouth _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | h. Trail Guidebook _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | i. Internet _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | j. Hotel/visitor activity desk _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | k. Government Office _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | l. Other _____ |

34. Is this your first time on this trail?

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------|
| 1 | 2 | 3 | 4 | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | c. Yes |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | d. No |

35. Have you hiked other Hawaii trails?

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------|
| 1 | 2 | 3 | 4 | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | c. Yes |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | d. No |

36. Footwear

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|
| 1 | 2 | 3 | 4 | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | f. Hiking Boots |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | g. Running Shoes |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | h. Slippers |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | i. Tevas/Athletic Sandals |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | j. Other |

37. What hazards did you expect to encounter on this trail (check all that apply)?

- | | | | |
|---|---|---------------------------------------|-------------------------------|
| <input type="checkbox"/> rockfall | <input type="checkbox"/> falling branches | <input type="checkbox"/> steep cliffs | <input type="checkbox"/> none |
| <input type="checkbox"/> flashflood | <input type="checkbox"/> washed out trail | <input type="checkbox"/> bugs/insects | |
| <input type="checkbox"/> slippery trail | <input type="checkbox"/> sunburn/heat | <input type="checkbox"/> other | |

38. Have you ever gotten lost while hiking?

1 2 3 4

☐ ☐ ☐ ☐ c. Yes

☐ ☐ ☐ ☐ d. No

39. Did you leave the trail today?

1 2 3 4

☐ ☐ ☐ ☐ c. Yes

☐ ☐ ☐ ☐ d. No

40. Did you notice the signs on the trail?

1 2 3 4

☐ ☐ ☐ ☐ c. Yes

☐ ☐ ☐ ☐ d. No

41. If yes, what information do you remember?

☐ j. Name

☐ k. Distance

☐ l. Mile Markers

☐ m. Don't leave trail

☐ n. Restoration Area

☐ o. Clean your boots

☐ p. Hazard warning sign

☐ q. Directional

☐ r. Other _____

42. What level of difficulty would you rate the trail?

1 2 3 4

☐ ☐ ☐ ☐ e. Difficult

☐ ☐ ☐ ☐ f. Intermediate

☐ ☐ ☐ ☐ g. Easy

☐ ☐ ☐ ☐ h. Don't know

43. Was the trail easier or harder than you thought it would be?

1 2 3 4

☐ ☐ ☐ ☐ d. Easier

☐ ☐ ☐ ☐ e. Harder

☐ ☐ ☐ ☐ f. Same

44. Would you consider yourself a:

1 2 3 4

☐ ☐ ☐ ☐ d. Beginning

☐ ☐ ☐ ☐ e. Intermediate

☐ ☐ ☐ ☐ f. Advanced hiker

45. Are you a Hawaii resident?

☐ Yes: Zip Code _____

☐ No: State/ Country _____

☐ Yes: Zip Code _____

☐ No: State/ Country _____

☐ Yes: Zip Code _____

☐ No: State/ Country _____

☐ Yes: Zip Code _____

☐ No: State/ Country _____

Demographics

46. Sex

1 2 3 4

☐ ☐ ☐ ☐ c. Male

☐ ☐ ☐ ☐ d. Female

47. Ethnicity

1 2 3 4

☐ ☐ ☐ ☐ r. Caucasian

☐ ☐ ☐ ☐ s. Hawaiian/Part Hawaiian

☐ ☐ ☐ ☐ t. Chinese

☐ ☐ ☐ ☐ u. Filipino

☐ ☐ ☐ ☐ v. Japanese

☐ ☐ ☐ ☐ w. Korean

☐ ☐ ☐ ☐ x. Samoan/Tongan

☐ ☐ ☐ ☐ y. Black/African American

☐ ☐ ☐ ☐ z. Native American

☐ ☐ ☐ ☐ aa. Vietnamese

☐ ☐ ☐ ☐ bb. Asian Indian

☐ ☐ ☐ ☐ cc. Portuguese

☐ ☐ ☐ ☐ dd. Guamanian/Chamorro

☐ ☐ ☐ ☐ ee. Mixed/non-Hawaiian

☐ ☐ ☐ ☐ ff. Other

☐ ☐ ☐ ☐ gg. Don't know/not sure

☐ ☐ ☐ ☐ hh. Refused

48. Age

1 2 3 4

☐ ☐ ☐ ☐ i. <12

☐ ☐ ☐ ☐ j. 12-18

☐ ☐ ☐ ☐ k. 18-24

☐ ☐ ☐ ☐ l. 24-34

☐ ☐ ☐ ☐ m. 35-44

☐ ☐ ☐ ☐ n. 45-54

☐ ☐ ☐ ☐ o. 55-64

☐ ☐ ☐ ☐ p. 65+

49. Occupation

1 2 3 4

- ☐ ☐ ☐ ☐ f. Student
☐ ☐ ☐ ☐ g. Military
☐ ☐ ☐ ☐ h. Retired
☐ ☐ ☐ ☐ i. Employeed
☐ ☐ ☐ ☐ j. Unemployed

Proceed ONLY if a Hawaii Resident.

50. Are you regularly active? (Regularly active = 30 minutes or more a day, on at least four ((4) or more days a week.

1 2 3 4

- ☐ ☐ ☐ ☐ c. Yes
☐ ☐ ☐ ☐ d. No

51. How many hours a week do you exercise?

1 2 3 4

- ☐ ☐ ☐ ☐ e. 1-3
☐ ☐ ☐ ☐ f. 4-7
☐ ☐ ☐ ☐ g. 8-10
☐ ☐ ☐ ☐ h. 10+

52. Do you engage in other types of exercise?

1 2 3 4

- ☐ ☐ ☐ ☐ m. Walking
☐ ☐ ☐ ☐ n. Jogging/Running
☐ ☐ ☐ ☐ o. Golf
☐ ☐ ☐ ☐ p. Weightlifting

1 2 3 4

- ☐ ☐ ☐ ☐ q. Gardening
☐ ☐ ☐ ☐ r. Swimming
☐ ☐ ☐ ☐ s. Biking
☐ ☐ ☐ ☐ t. Competitive Sports

1 2 3 4

- ☐ ☐ ☐ ☐ u. Aerobics
☐ ☐ ☐ ☐ v. Tennis
☐ ☐ ☐ ☐ w. Surfing
☐ ☐ ☐ ☐ x. Other

53. Do you smoke?

1 2 3 4

- ☐ ☐ ☐ ☐ c. Yes ____ packs per day, ____ years been smoking
☐ ☐ ☐ ☐ d. No

Additional Comments:

Survey Procedure and Method

1. If the trail is a loop trail, interview each person exiting the trail. If the trail ends at another location or if the area is a park, interview every available person.
2. Use one survey sheet for each group.
3. The survey sheet has up to 4 boxes next to each answer, to allow the recording of responses from up to 4 persons. Before beginning the survey, the interviewer must decide which person in the group will be "person 1," "person 2," etc. The interviewer must then **consistently** record the responses from each person in the group in the same box. (E.g. person 1's response always goes in the first box; person 2's response goes in the second box; . . .).
4. If the group has more than 4 persons, two interviewers may divide the group and record responses. If there is only one interviewer available, the interviewer should record the total number of persons in the group, but only collect responses for 4 members of the group.
5. If it is clear that the group is being led by a commercial tour guide, either by the size of the group or by the actions of the group leader, DO NOT APPROACH the group and attempt to interview them. Instead, note the size of the group on the survey form.
6. For those not part of a commercial group, approach the potential participants with a SMILE. Use the following introduction to identify yourself and what you are doing:

HELLO! MY NAME IS _____.

I AM FROM THE UNIVERSITY OF HAWAII.

WE ARE CONDUCTING A SURVEY OF THE CHARACTERISTICS AND PERCEPTIONS OF TRAIL AND PARK USERS.

WOULD YOU CARE TO ANSWER A FEW QUESTIONS? (survey should not last more than 5-7 minutes)

7. When someone says that they will participate, check off (do not ask) the type of activity they are doing (hiking, biking, horseback riding, etc.). The survey is now underway.
8. If someone (or a group) refuses to participate, politely accept their decision. Note their refusal and the size of the group on a survey sheet.
9. If you have any questions or problems at any time, report immediately to your crew chief for help.
10. Feel free to make additional notations in the margins or on the back of the survey if a person's response does not fall neatly into one of the answer options.
11. After a person has completed a survey with you, THANK them for helping. If they have any questions, direct them to the crew chief.

REMEMBER TO BE FRIENDLY . . . UNDERSTANDING . . . AND HAVE FUN!!!

DLNR Trail and Park User Census Codebook

Question	Variable	Data type	Code	Value
Survey number (placed on at data entry)	survey	numeric		
Individual number	ind	numeric		
Total number in group	total	numeric		
Commercial group?	commercial	yes/no		
Other activity engaged in	activity	numeric	0	hiking
			1	bicycling
			2	hunting
			3	fishing
			4	horseback riding
			5	ATV/4 wheel driving
			6	cultural practices
			7	swimming
			8	sightseeing
			9	missing
			10	picnicking
Island	island	character	11	surfing
			O	Oahu
			K	Kauai
			M	Mauí
			H	Hawaií

Question	Variable	Data type	Code	Value
Trail	trail	character	DH	Diamond Head
			Manoa	Manoa Falls
			MW	Maunawili Falls
			N	Nakoa
			Awaawapuhi	Awaawapuhi
			Kalalau	Kalalau
			Keahua	Keahua
			Pihea	Pihea
			Waihee	Waihee Ridge
			Waikamoi	Waikamoi Ridge
			Ainapo	Ainapo
			Ditch	Hamakua Ditch
			Kahaualea	Kahaualea
			Muliwai	Muliwai
Date of survey	date	date/time		
Time survey conducted	time	date/time		
Weather at time of survey	weather	numeric	1	perfect
			2	hot
			3	rain
			4	cloudy
			5	off & on rain
			6	fog
			9	missing

Question	Variable	Data type	Code	Value
Interviewer	observ	character	CM	Christen Mitchell
			RM	Risa Minato
			EK	Erin Kilpatrick
			AE	Angela Ellis
			MD	Mike Donoho
			JB	Joe Boski
			JE	Jennifer Bethel
			LH	Lara Hutto
			DH	Dawn Hegger
			AO	Andrew Ovenden
			PF	Peter Flachsbart
			AR	Alan Resture
			P?	Paula Scataloni
			BM	Bryce Minato
(1) what did you bring with you today?				
Backpack?	qu1a	numeric	0	no
			1	yes
Water?	qu1b	numeric	0	no
			1	yes
Food?	qu1c	numeric	0	no
			1	yes
First Aid Kit?	qu1d	numeric	0	no
			1	yes
Cell phone?	qu1e	numeric	0	no
			1	yes
Map?	qu1f	numeric	0	no
			1	yes
Raingear?	qu1g	numeric	0	no
			1	yes

Question	Variable	Data type	Code	Value
Flashlight?	qu1h	numeric	0	no
			1	yes
Whistle?	qu1i	numeric	0	no
			1	yes
Walking stick?	qu1j	numeric	0	no
			1	yes
(2) What was your primary reason for hiking?	qu2a	numeric	1	exercise
			2	experience nature
			3	traditional/cultural
			4	spend time w/ friend
			5	see the view
			6	general other
			7	carsick
			8	Hana tape
			9	Missing data
			10	exploring
			11	swimming
Additional reasons for hiking	qu2b	numeric	1	exercise
			2	experience nature
			3	traditional/cultural
			4	spend time w/ friend
			5	see the view
			6	general other
			7	carsick
			8	Hana tape
			9	missing data
			10	exploring
			11	swimming

Question	Variable	Data type	Code	Value
(3) How did you access the trail/park?	Qu3	numeric	1	car
			2	bus
			3	bike
			4	walked
			5	taxi
			6	moped
			7	other
			8	hitchhike
			9	missing data
			10	trolley
(4) How did you learn about the trail?	qu4	numeric	1	family/word of mouth
			2	guidebook
			3	internet
			4	hotel/visitor activity desk
			5	government office
			6	local
			7	kokee museum or hana
				tape
			8	drive by; end of road
			9	missing data
			10	general other
(4) Detail on how learned about the trail	qu4a	character	11	map
(5) Is this your first time on the trail	qu5	numeric	0	no
			1	yes
			9	missing data

Question	Variable	Data type	Code	Value
(6) Have you hiked other Hawaii trails	qu6	numeric	0	no
			1	yes
			9	missing data
other trails hiked, if named	qu6a	character		
(7) How many times have you been hiking in the past 30 days	qu7	numeric	1	0
			2	1-2
			3	3 or more
			9	missing data
(8) Footwear	qu8	numeric	1	hiking boots
			2	running shoes
			3	slippers
			4	tevas/athletic sandals
			5	dress sandal
			6	loafer/docksider
			7	tabi
			8	general other
			9	missing data
			10	barefoot
			11	heels

Question	Variable	Data type	Code	Value
(9) How far did you hike today (Manoa Falls)	qu9	numeric	trail specific	
			1	falls
			2	Ahuimanu trail
			3	Nuuanu overlook
			4	into Tantalus complex
			5	partway, not to falls
			6	ambiguous "past falls"
(Maunawili Falls)			1	falls
			2	partway
			4	demonstration trail
(Nakoa)			1	to the end
			2	swimming
			3	end + side trails
(Awaawapuhi)			1	to the end and back
			2	partway
			4	entire loop from Nualolo
(Kalalau)			1	Hanakapiai Beach
			2	Lookout (1/2 mi in)
			3	Hanakapiai Falls
			4	Kalalau Valley
			5	partway, beyond lookout
			6	partway, not to lookout
(Pihea)			1	to the vista (1 mi in)
			2	into Alakai Swamp
			3	to Hanalei lookout
			4	partway, not to vista
			9	unknown distance
(Waihee)			1	to end
			2	to bench

Question	Variable	Data type	Code	Value
Waikamoi			1	end of trail
			2	did loop
			3	partway, wandered
Hamakua Ditch			1	bamboo forest
			2	partway
			3	overlook
			4	other
Muliwai			2	partway
			3	ironwood forest
			4	1 st switchback
text description on how far hiked	qu9a	character		
(10) Did you inform someone (not with you) of your planned hike/route?	qu10	numeric	0	no
			1	yes
			9	missing data
(11) Did you inform them of an estimated return time?	qu11	numeric	0	no
			1	yes
			9	missing data
(12) Did you expect to encounter any hazards on the trail	qu12	numeric	0	no
			1	yes
			9	missing data
What hazards				
rockfall	qu12a	numeric	0	no
			1	yes
			9	missing data
flashflood	qu12b	numeric	0	no
			1	yes
			9	missing data

Question	Variable	Data type	Code	Value
slippery trail	qu12c	numeric	0	no
			1	yes
			9	missing data
falling branches	qu12d	numeric	0	no
			1	yes
			9	missing data
washed out trail	qu12e	numeric	0	no
			1	yes
			9	missing data
sunburn/heat	qu12f	numeric	0	no
			1	yes
			9	missing data
steep cliffs	qu12g	numeric	0	no
			1	yes
			9	missing data
bugs/insects	qu12h	numeric	0	no
			1	yes
			9	missing data
other hazards named	qu12i	character		
(13) Have you ever gotten lost while hiking	qu13	numeric	0	no
			1	yes
			9	missing data
(14) Did you leave the trail today	qu14	numeric	0	no
			1	yes
			9	missing data
(15) Did you notice the signs for the trail	qu15	numeric	0	no
			1	yes
			9	missing data

Question	Variable	Data type	Code	Value
(16) What information do you remember (free response)				
name of trail	qu16a	numeric	0	no
			1	yes
			9	missing data
distance	qu16b	numeric	0	no
			1	yes
			9	missing data
mile markers	qu16c	numeric	0	no
			1	yes
			9	missing data
don't leave the trail	qu16d	numeric	0	no
			1	yes
			9	missing data
restoration area	qu16e	numeric	0	no
			1	yes
			9	missing data
clean your boots	qu16f	numeric	0	no
			1	yes
			9	missing data
hazard warning sign	qu16g	numeric	0	no
			1	yes
			9	missing data
directional signage	qu16h	numeric	0	no
			1	yes
			9	missing data
other signs noticed	qu16i	character		
other signs noticed	qu16j	character		
other signs noticed	qu16k	character		
other signs noticed	qu16l	character		

Question	Variable	Data type	Code	Value
(17) What level of difficulty would you rate the trail	qu17	numeric	1	difficult
			2	intermediate
			3	easy
			4	don't know
			9	missing data
(18) Was the trail easier or harder than you thought it would be	qu18	numeric	1	easier
			2	harder
			3	same
			4	had no expectations
			9	missing data
(19) Would you consider yourself a beginning, intermediate or advanced hiker	qu19	numeric	1	beginner
			2	intermediate
			3	advanced
			9	missing data
(20) Are you regularly active	qu20	numeric	0	no
			1	yes
			9	missing data
(21) How many hours a week do you exercise (Diamond Head)	qu21a	numeric	1	1-3
			2	4-7
			3	8-10
			4	10+
(Other trails)	qu21b	numeric	1	0
			5	1-4
			6	5-10
			7	10+
			9	missing data

Question	Variable	Data type	Code	Value
(22) Do you do other types of exercise	qu22	numeric	0	no
			1	yes
			9	missing data
walk	qu22a	numeric	0	no
			1	yes
			9	missing data
jog	qu22b	numeric	0	no
			1	yes
			9	missing data
golf	qu22c	numeric	0	no
			1	yes
			9	missing data
weightlift	qu22d	numeric	0	no
			1	yes
			9	missing data
garden	qu22e	numeric	0	no
			1	yes
			9	missing data
swim	qu22f	numeric	0	no
			1	yes
			9	missing data
bike	qu22g	numeric	0	no
			1	yes
			9	missing data
competitive sports	qu22h	numeric	0	no
			1	yes
			9	missing data

Question	Variable	Data type	Code	Value
aerobics	qu22i	numeric	0	no
			1	yes
			9	missing data
tennis	qu22j	numeric	0	no
			1	yes
			9	missing data
surfing	qu22k	numeric	0	no
			1	yes
			9	missing data
other activity	qu22l	character		
(23) Do you have children	qu23	numeric	0	no
			1	yes
			9	missing data
If yes, do you hike with your children	qu23a	numeric	0	no
			1	yes
			9	missing data
(24) Do you smoke	qu24	numeric	0	no
			1	yes
			9	missing data
For yes, # of packs per day	qu24a	numeric		
For yes, # of years been smoking	qu24b	numeric		
(25) Sex of participant	sex	numeric	0	female
			1	male
			9	missing data
(26) Ethnicity of participant	ethnic	numeric	1	caucasian
			2	hawaiian/part-hawaiian
			3	chinese
			4	filipino
			5	japanese

Question	Variable	Data type	Code	Value
			6	korean
			7	samoan/tongan
			8	black/african-american
			9	missing data
			10	native american
			11	vietnamese
			12	asian indian
			13	portuguese
			14	guamanian/chamorroan
			15	mixed/non-hawaiian
			16	other
			17	don't know/not sure
			18	refused
			19	hispanic
(27) Age of participant	age	numeric		
(28) Resident or visitor	resident	numeric	0	visitor
			1	resident
			9	missing data
Zip code of resident	zip	numeric		
Home state/country of visitor	state	character		
(29) Occupation	qu29	numeric	1	student
			2	military
			3	retired
			4	employed
			5	unemployed
			9	missing data

Appendix B: Comprehensive Statistical Summary of User Survey Findings

Statistical Results, Part One

Statistical Results, Part Two

Comprehensive Statistical Summary of Survey Findings

	Total surveyed	Average surveyed per period	Total groups	Average group size	Distribution of Group Size									Gender		Age				
					1	2	3	4	5	6	7	8	9	male	female	<12	12-18	19-24	25-34	35-44
Diamond Head	679	113	322	2.11	21% (68)	56% (181)	14% (46)	7% (24)	.3% (1)	.6% (2)	0%	0%	0%	48% (307)	52% (327)	4% (22)	1% (8)	9% (57)	28% (173)	18% (112)
Manoa Falls	244	41	115	2.23	25% (29)	48% (55)	14% (16)	9% (10)	3% (3)	.9% (1)	0%	0%	.9% (1)	50% (120)	50% (120)	6% (15)	2.5% (6)	10% (26)	36% (86)	20% (49)
Maunawili Falls	73	12	25	2.92	20% (5)	32% (8)	20% (5)	12% (3)	8% (2)	4% (1)	0%	0%	4% (1)	56% (39)	44% (31)	1% (1)	22% (15)	24% (16)	15% (10)	22% (15)
Nakoa (Kahana Valley)	53	9	17	3.18	12% (2)	29% (5)	30% (5)	18% (3)	0%	0%	6% (1)	6% (1)	0%	68% (36)	32% (17)	9% (5)	0%	17% (9)	45% (24)	21% (11)
Oahu totals	1049		479	2.22	21% (104)	52% (249)	15% (72)	8% (40)	1% (6)	.8% (4)	.2% (1)	.2% (1)	.4% (2)	50% (502)	50% (495)	4% (43)	3% (29)	11% (108)	30% (293)	19% (187)
Awaawapuhi (Kokee)	56	11	28	2	14% (4)	75% (21)	7% (2)	4% (1)	0%	0%	0%	0%	0%	48% (27)	52% (29)	0%	0%	2% (1)	41% (23)	30% (17)
Kalalau (Na Pali)	383	64	194	2	21% (40)	68% (131)	5% (10)	6% (11)	.5% (1)	0%	.5 % (1)	0%	0%	52% (199)	48% (181)	3% (10)	3% (12)	6% (21)	45% (170)	19% (73)
Keahua Arboretum	143	29	52	2.75	4% (2)	58% (30)	15% (8)	15% (8)	4% (2)	0%	2% (1)	2% (1)	0%	52% (75)	48% (68)	4% (5)	7% (10)	9% (12)	24% (33)	22% (31)
Pihea (Kokee)	133	22	64	2.08	8% (5)	81% (52)	8% (5)	2% (1)	2% (1)	0%	0%	0%	0%	52% (69)	48% (64)	2% (2)	.7% (1)	4% (5)	33% (43)	27% (36)
Kauai totals	715		338	2.13	15% (51)	69% (234)	7% (25)	6% (21)	1% (4)	0%	.6% (2)	.3% (1)	0%	52% (370)	48% (342)	2% (17)	3% (23)	6% (39)	38% (269)	22% (157)
Ainapo	0	0	0	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Hamakua Ditch	53	9	23	2.3	13% (3)	57% (13)	17% (4)	13% (3)	0%	0%	0%	0%	0%	48% (25)	52% (27)	6% (3)	10% (5)	8% (4)	27% (14)	20% (10)
Kahaualea	0	0	0	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Muliwai	8	1.3	5	1.6	33% (2)	67% (4)	0%	0%	0%	0%	0%	0%	0%	62.5% (5)	37.5% (3)	0%	0%	0%	87.5% (7)	0%
Hawaii totals	61		29	2.17	17% (5)	59% (17)	14% (4)	10% (3)	0%	0%	0%	0%	0%	50% (30)	50% (30)	5% (3)	8% (5)	7% (4)	36% (21)	17% (10)
Waihee Ridge	12	2.4	5	2.4	0%	80% (4)	0%	20% (1)	0%	0%	0%	0%	0%	25% (3)	75% (9)	0%	25% (3)	0%	42% (5)	33% (4)
Waikamoi Ridge	274	45.7	121	2.26	4% (5)	79% (95)	6% (7)	10% (12)	2% (2)	0%	0%	0%	0%	51% (141)	49% (133)	4% (12)	1% (3)	5% (13)	42% (114)	20% (55)
Maui totals	286		126	2.27	4% (5)	79% (99)	6% (7)	10% (13)	2% (2)	0%	0%	0%	0%	50% (144)	50% (142)	4% (12)	2% (6)	5% (13)	42% (119)	21% (59)
State totals	2111		972	2.2	17% (165)	62% (599)	11% (108)	8% (77)	1% (12)	.4% (4)	.3% (3)	.2% (2)	.2% (2)	51% (1046)	49% (1009)	4% (75)	3% (63)	8% (164)	35% (702)	20% (413)

Comprehensive Statistical Summary of Survey Findings

	Ethnicity																			Resident/Visitor			
	45-54	55-64	65 +	caucasian	hawaiian	chinese	filipino	japanese	korean	samoan/tongan	black	native american	vietnamese	asian indian	portuguese	chamorrان	mixed/non Hawaiian	Hispanic	missing/refused	resident	visitor	mainland US	asia
Diamond Head	21% (130)	13% (79)	5% (28)	66% (450)	1% (8)	3% (17)	.15% (1)	16% (106)	0%	.3% (2)	.9% (6)	0%	.15% (1)	.3% (2)	.3% (2)	.4% (3)	.4% (3)	.4% (3)	11% (75)	16% (109)	84% (567)	66% (367)	17% (96)
Manoa Falls	13% (32)	9% (21)	2% (5)	68% (165)	6% (15)	3% (8)	1% (3)	7% (17)	2% (6)	0%	2% (5)	0%	1% (3)	0%	0%	.4% (1)	2% (6)	3% (7)	4% (8)	45% (108)	55% (134)	81% (107)	5% (7)
Maunawili Falls	9% (6)	4% (3)	3% (2)	74% (54)	8% (6)	4% (3)	1% (1)	4% (3)	0%	0%	0%	0%	0%	1% (1)	0%	1% (1)	0%	0%	5% (4)	82% (60)	18% (13)	92% (11)	0%
Nakoa (Kahana Valley)	8% (4)	0%	0%	94% (50)	4% (2)	0%	2% (1)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	58% (31)	42% (22)	89% (16)	0%
Oahu totals	18% (172)	11% (103)	4% (35)	69% (719)	3% (31)	3% (28)	.57% (6)	12% (126)	.57% (6)	.2% (2)	1% (11)	0%	.4% (4)	.3% (3)	.2% (2)	.5% (5)	.8% (9)	1% (10)	8% (87)	29% (308)	71% (736)	71% (501)	15% (103)
Awaawapuhi (Kokee)	23% (13)	4% (2)	0%	91% (51)	0%	7% (4)	0%	0%	0%	0%	0%	0%	0%	0%	2% (1)	0%	0%	0%	0%	9% (5)	91% (51)	84% (43)	0%
Kalalau (Na Pali)	15% (58)	6% (24)	3% (11)	89% (339)	2% (7)	2% (6)	.5% (2)	2% (7)	.3% (1)	0%	.8% (3)	0%	0%	.3% (1)	0%	0%	0%	.8% (3)	4% (14)	13% (50)	87% (329)	83% (273)	2% (6)
Keahua Arboretum	21% (30)	9% (12)	5% (7)	75% (107)	10% (15)	.7% (1)	6% (8)	1% (2)	0%	0%	.7% (1)	0%	0%	0%	0%	0%	1% (2)	4% (5)	1% (2)	29% (42)	71% (101)	81% (82)	0%
Pihea (Kokee)	29% (38)	5% (7)	0%	89% (119)	.7% (1)	0%	0%	2% (2)	0%	0%	2% (2)	0%	0%	0%	0%	0%	.7% (1)	.8% (1)	5% (7)	11% (15)	89% (118)	73% (82)	2% (2)
Kauai totals	20% (139)	6% (45)	3% (18)	86% (616)	3% (23)	2% (11)	1% (10)	2% (11)	.1% (1)	0%	.8% (6)	0%	0%	.1% (1)	.1% (1)	0%	.4% (3)	1% (9)	4% (23)	16% (112)	84% (599)	81% (480)	1% (8)
Ainapo	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Hamakua Ditch	18% (9)	8% (4)	4% (2)	83% (44)	6% (3)	0%	0%	2% (1)	0%	0%	2% (1)	0%	0%	6% (3)	0%	0%	0%	2% (1)	0%	57% (30)	43% (23)	77% (17)	5% (1)
Kahaualea	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Muliwai	12.5% (1)	0%	0%	63% (5)	0%	0%	12% (1)	0%	25% (2)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	12% (1)	88% (7)	71% (5)	0%
Hawaii totals	17% (10)	7% (4)	4% (2)	80% (49)	5% (3)	0%	2% (1)	2% (1)	3% (2)	0%	2% (1)	0%	0%	5% (3)	0%	0%	0%	2% (1)	0%	51% (31)	49% (30)	73% (22)	3% (1)
Waihee Ridge	0%	0%	0%	67% (8)	0%	0%	17% (2)	8% (1)	8% (1)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	67% (8)	33% (4)	75% (3)	0%
Waikamoi Ridge	15% (40)	10% (26)	3% (8)	86% (236)	0%	3% (9)	.7% (2)	0%	1% (4)	0%	1% (4)	.7% (2)	1% (4)	0%	.4% (1)	0%	0%	3% (8)	1% (4)	3% (8)	97% (266)	79% (211)	0%
Maui totals	14% (40)	9% (26)	3% (8)	85% (244)	0%	3% (9)	1% (4)	.4% (1)	2% (5)	0%	1% (4)	.7% (2)	1% (4)	0%	.3% (1)	0%	0%	3% (8)	1% (4)	6% (16%)	94% (270)	80% (214)	0%
State totals	18% (361)	9% (178)	3% (63)	77% (1628)	3% (57)	2% (48)	1% (21)	7% (139)	.6% (14)	.1% (2)	1% (22)	.1% (2)	.4% (8)	.3% (7)	.2% (4)	.2% (5)	.6% (12)	1% (28)	5% (111)	22% (467)	78% (1635)	76% (1217)	7% (112)

Comprehensive Statistical Summary of Survey Findings

Visitor Breakdown						Occupation					Qu 1: Preparedness - % who brought items									
											back pack	water	food	first aid	cell phone	map	rain gear	flashlight	whistle	
	europa	canada	australia	south america	middle east/africa	student	military	retired	employed	unemployed										
Diamond Head	8% (43)	2% (10)	5% (30)	1% (3)	1% (4)	6% (30)	4% (18)	9% (43)	75% (348)	5% (24)	25% (167)	57% (387)	10% (68)	3% (23)	6% (40)	5% (37)	2% (14)	43% (287)	.15% (1)	
Manoa Falls	10% (13)	1% (1)	1% (1)	1% (1)	1% (1)	15% (33)	9% (20)	5% (12)	65% (148)	6% (13)	32% (78)	48% (116)	20% (48)	7% (18)	16% (40)	4% (9)	11% (26)	5% (12)	2% (4)	
Maunawili Falls	8% (1)	0%	0%	0%	0%	39% (27)	3% (2)	3% (2)	55% (38)	0%	48% (35)	48% (35)	26% (19)	4% (3)	16% (12)	0%	7% (5)	4% (3)	3% (2)	
Nakoa (Kahana Valley)	11% (2)	0%	0%	0%	0%	26% (14)	0%	0%	68% 36)	6% (3)	64% (34)	79% (42)	58% (31)	25% (13)	32% (17)	53% (28)	11% (6)	8% (4)	11% (6)	
Oahu totals	8% (59)	2% (11)	4% (31)	1% (4)	1% (5)	13% (104)	5% (40)	7% (57)	70% (570)	5% (40)	30% (314)	56% (580)	16% (166)	5% (57)	10% (109)	7% (74)	5% (51)	29% (306)	1% (13)	
Awaawapuhi (Kokee)	14% (7)	0%	2% (1)	0%	0%	6% (3)	0%	4% (2)	91% (49)	0%	68% (38)	96% (54)	87% (49)	25% (14)	2% (1)	25% (14)	34% (19)	21% (12)	2% (1)	
Kalalau (Na Pali)	12% (38)	2% (8)	0%	0%	0%	7% (25)	2% (7)	6% (23)	83% (312)	2% (9)	60% (228)	78% (293)	51% (193)	19% (71)	11% (40)	12% (44)	13% (48)	10% (38)	3% (10)	
Keahua Arboretum	12% (12)	7% (7)	0%	0%	0%	14% (18)	1% (1)	7% (9)	77% (103)	2% (2)	4% (6)	24% (33)	14% (20)	2% (3)	0%	3% (4)	1% (2)	0%	0%	
Pihea (Kokee)	24% (27)	2% (2)	0%	0%	0%	0%	3% (4)	1% (1)	91% (111)	5% (6)	41% (54)	67% (89)	50% (66)	6% (8)	2% (2)	18% (24)	8% (10)	4% (5)	0%	
Kauai totals	14% (84)	3% (17)	0% (1)	0%	0%	7% (46)	2% (12)	5% (35)	84% (575)	3% (17)	46% (326)	66% (469)	46% (328)	14% (96)	6% (43)	12% (86)	11% (79)	8% (55)	2% (11)	
Ainapo	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Hamakua Ditch	14% (3)	9% (2)	0%	0%	0%	23% (12)	0%	8% (4)	64% (34)	6% (3)	47% (25)	64% (34)	43% (23)	15% (8)	8% (4)	8% (4)	32% (17)	6% (3)	0%	
Kahaualea	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Muliwai	29% (2)	0%	0%	0%	0%	13% (1)	0%	0%	87% (7)	0%	62% (5)	88% (7)	50% (4)	25% (2)	0%	38% (3)	88% (7)	50% (4)	12% (1)	
Hawaii totals	17% (5)	7% (2)	0%	0%	0%	21% (13)	0%	0%	67% (41)	5% (3)	49% (30)	67% (41)	44% (27)	17% (10)	7% (4)	11% (7)	39% (24)	11% (7)	2% (1)	
Waihee Ridge	25% (1)	0%	0%	0%	0%	30% (3)	0%	0%	70% (7)	0%	58% (7)	67% (8)	50% (6)	33% (4)	33% (4)	0%	0%	0%	0%	
Waikamoi Ridge	12% (33)	7% (18)	0%	1% (2)	1% (2)	11% (17)	.6% (1)	6% (9)	79% (124)	3% (5)	12% (35)	18% (48)	11% (29)	2% (5)	2% (5)	4% (10)	7% (18)	2% (5)	0%	
Maui totals	13% (34)	7% (18)	0%	1% (2)	1% (2)	12% (20)	.6% (1)	5% (9)	79% (131)	3% (5)	15% (42)	20% (56)	12% (35)	3% (9)	3% (9)	4% (10)	6% (18)	2% (5)	0%	
State totals	11% (182)	3% (48)	2% (32)	0% (6)	0% (7)	11% (183)	3% (53)	6% (105)	76% (1317)	4% (65)	34% (712)	55% (1146)	27% (556)	8% (172)	8% (165)	8% (177)	8% (172)	18% (373)	1% (25)	

Comprehensive Statistical Summary of Survey Findings

		Qu2: Reason for hiking						Qu3: Transportation to trailhead									Qu4: Source of Information about Trail						
		walking stick	exercise	experience nature	see the view	traditional/cultural	spend time with friend	other	car	bus	bike	walk	taxi	moped	hitchhike	trolley	other	word of mouth	guidebook	internet	hotel	gov't office	local resident
Diamond Head	0%	16% (112)	4% (24)	85% (577)	0%	2% (12)	1% (9)	63% (421)	17% (117)	1% (7)	7% (48)	6% (42)	5% (34)	0%	.45% (3)	0%	45% (298)	25% (168)	1.2% (8)	7% (45)	0%	6% (37)	N/A
Manoa Falls	5% (12)	21% (51)	29% (70)	52% (125)	2% (6)	7% (17)	1% (2)	88% (211)	8% (19)	2% (4)	2% (6)	0%	.4% (1)	0%	0%	0%	51% (123)	24% (57)	.8% (2)	5% (11)	2% (4)	6% (15)	N/A
Maunawili Falls	4% (3)	66% (48)	27% (20)	21% (15)	0%	29% (21)	11% (7)	93% (68)	0%	0%	7% (5)	0%	0%	0%	0%	0%	58% (42)	17% (12)	0%	0%	0%	24% (17)	N/A
Nakoa (Kahana Valley)	0%	62% (33)	55% (29)	0%	0%	28% (15)	0%	96% (51)	4% (2)	0%	0%	0%	0%	0%	0%	0%	55% (29)	19% (10)	0%	17% (9)	0%	0%	N/A
Oahu totals	1% (15)	23% (244)	14% (143)	69% (717)	1% (6)	6% (65)	2% (19)	72% (751)	13% (138)	1% (11)	6% (59)	4% (42)	3% (35)	0%	.3% (3)	0%	47% (492)	24% (247)	1% (10)	6% (65)	.4% (4)	7% (69)	N/A
Awaawapuhi (Kokee)	16% (9)	20% (11)	20% (11)	70% (39)	0%	2% (1)	2% (1)	93% (52)	2% (1)	0%	4% (2)	0%	2% (1)	0%	0%	0%	11% (6)	61% (34)	0%	7% (4)	0%	5% (3)	4% (2)
Kalalau (Na Pali)	8% (30)	24% (91)	23% (88)	68% (258)	0%	2% (8)	4% (16)	98% (371)	0%	0%	.5% (2)	0%	0%	1% (5)	0%	0%	34% (126)	45% (169)	.3% (1)	7% (28)	0%	7% (25)	0%
Keahua Arboretum	0%	7% (9)	35% (42)	40% (48)	0%	9% (11)	22% (27)	96% (135)	0%	2% (3)	0%	0%	0%	0%	0%	1% (2)	5% (7)	24% (33)	0%	1% (2)	0%	25% (35)	0%
Pihea (Kokee)	3% (4)	14% (19)	9% (12)	80% (105)	1% (1)	1% (1)	2% (2)	100% (132)	0%	0%	0%	0%	0%	0%	0%	0%	12% (16)	50% (66)	2% (2)	0%	0%	3% (4)	15% (20)
Kauai totals	6% (43)	19% (130)	22% (153)	66% (450)	.1% (1)	3% (21)	7% (46)	98% (690)	.1% (1)	.4% (3)	.6% (4)	0%	.1% (1)	.7% (5)	0%	.3% (2)	22% (155)	43% (302)	.4% (3)	5% (34)	0%	10% (67)	3% (22)
Ainapo	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	N/A
Hamakua Ditch	9% (5)	16% (8)	42% (21)	40% (20)	0%	2% (1)	10% (5)	100% (53)	0%	0%	0%	0%	0%	0%	0%	0%	75% (40)	6% (3)	0%	8% (4)	0%	6% (3)	N/A
Kahaualea	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	N/A
Muliwai	50% (4)	50% (4)	13% (1)	50% (4)	0%	25% (2)	13% (1)	100% (8)	0%	0%	0%	0%	0%	0%	0%	0%	38% (3)	50% (4)	0%	0%	0%	12% (1)	N/A
Hawaii totals	15% (9)	21% (12)	38% (22)	41% (24)	0%	5% (3)	10% (6)	100% (61)	0%	0%	0%	0%	0%	0%	0%	0%	70% (43)	11% (7)	0%	7% (4)	0%	7% (4)	N/A
Waihee Ridge	0%	100% (12)	17% (2)	33% (4)	0%	0%	0%	100% (12)	0%	0%	0%	0%	0%	0%	0%	0%	33% (4)	33% (4)	0%	0%	0%	33% (4)	0%
Waikamoi Ridge	0%	7% (18)	43% (118)	39% (107)	0%	1% (4)	17% (47)	100% (274)	0%	0%	0%	0%	0%	0%	0%	0%	10% (26)	18% (49)	.7% (2)	5% (14)	0%	0%	46% (123)
Maui totals	0%	10% (30)	42% (120)	39% (111)	0%	1% (4)	16% (47)	100% (286)	0%	0%	0%	0%	0%	0%	0%	0%	11% (30)	19% (53)	.7% (2)	5% (14)	0%	1% (4)	44% (123)
State totals	3% (67)	20% (416)	21% (438)	64% (1302)	.3% (7)	5% (93)	6% (118)	85% (1788)	7% (139)	.7% (14)	3% (63)	2% (42)	2% (36)	.2% (5)	.1% (3)	.1% (2)	35% (720)	29% (609)	1% (15)	6% (117)	.2% (4)	7% (144)	8% (171)

Comprehensive Statistical Summary of Survey Findings

				Qu5: First Time on Trail?		Qu6: Hiked other Hawaiii Trails?		Qu7: Times Hiking in Past 30 days			Qu8: Footwear										Qu10: Informal plan?
	saw as driving	map	other	yes	no	yes	no	0	1-2	3 or more	hiking boots	running shoes	slippers	tevas/ athletic sandal	dress sandals	docksider/l oaffer	tabi	barefoot	heels	other	yes
Diamond Head	1% (7)	2% (16)	13% (90)	75% (508)	25% (166)	25% (170)	75% (499)	N/A	N/A	N/A	7% (44)	68% (457)	6% (41)	12% (82)	5% (31)	1% (7)	0%	0%	0%	1% (9)	N/A
Manoa Falls	2% (4)	5% (12)	6% (14)	71% (172)	29% (69)	68% (165)	32% (76)	39% (93)	35% (85)	26% (63)	21% (50)	54% (131)	10% (24)	6% (4)	0%	1% (2)	0% (1)	0%	0%	0%	69% (50)
Maunawili Falls	0%	0%	1% (1)	31% (22)	69% (48)	90% (63)	10% (7)	34% (24)	40% (28)	26% (18)	14% (10)	59% (41)	20% (14)	10% (25)	3% (8)	0%	0%	0% (1)	0%	0%	55% (131)
Nakoa (Kahana Valley)	6% (3)	0%	4% (2)	60% (32)	40% (21)	57% (30)	43% (23)	47% (25)	45% (24)	8% (4)	38% (20)	58% (31)	2% (1)	2% (1)	0%	0%	0%	0%	0%	0%	64% (34)
Oahu totals	1% (14)	3% (28)	10% (10)	71% (734)	29% (304)	59% (605)	41% (428)	39% (142)	38% (137)	23% (85)	12% (124)	64% (660)	8% (80)	11% (112)	4% (39)	1% (9)	0% (1)	0% (1)	0%	1% (9)	60% (217)
Awaawapuhi (Kokee)	2% (1)	0%	11% (6)	86% (48)	14% (8)	59% (33)	41% (23)	35% (19)	25% (14)	40% (22)	80% (45)	20% (11)	0%	0%	0%	0%	0%	0%	0%	0%	33% (18)
Kalalau (Na Pali)	2% (8)	3% (11)	2% (6)	79% (298)	21% (79)	58% (219)	42% (158)	N/A	N/A	N/A	36% (135)	42% (175)	3% (10)	15% (55)	1% (5)	2% (7)	1% (4)	1% (4)	0%	0% (1)	36% (61)
Keahua Arboretum	19% (26)	24% (33)	1% (2)	75% (1050)	25% (35)	58% (76)	42% (54)	69% (20)	14% (4)	17% (5)	9% (5)	38% (22)	10% (6)	33% (19)	2% (1)	7% (4)	0%	2% (1)	0%	0%	0%
Pihea (Kokee)	12% (16)	6% (8)	0%	91% (120)	9% (12)	58% (74)	42% (53)	28% (36)	29% (37)	43% (56)	38% (50)	51% (67)	2% (2)	7% (9)	0%	0%	0%	0%	0%	2% (3)	21% (27)
Kauai totals	7% (51)	7% (52)	2% (14)	81% (571)	19% (134)	58% (402)	42% (288)	35% (75)	26% (55)	39% (83)	38% (235)	41% (257)	3% (18)	13% (83)	1% (6)	2% (11)	1% (4)	1% (5)	0%	1\$ (4)	28% (106)
Ainapo	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Hamakua Ditch	0%	0%	6% (3)	58% (31)	42% (22)	92% (49)	8% (4)	39% (20)	24% (12)	37% (19)	17% (9)	69% (36)	4% (2)	2% (1)	0%	4% (2)	0%	0%	0%	4% (2)	60% (32)
Kahaualea	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Muliwai	0%	0%	0%	88% (7)	12% (1)	86% (6)	14% (1)	0%	12% (1)	88% (7)	88% (7)	13% (1)	0%	0%	0%		0%	0%	0%	0%	88% (7)
Hawaii totals	0%	0%	5% (3)	62% (38)	38% (23)	92% (55)	8% (5)	34% (20)	22% (13)	44% (26)	27% (16)	62% (37)	3% (2)	2% (1)	0%	3% (2)	0%	0%	0%	3% (2)	64% (39)
Waihee Ridge	0%	0%	0%	75% (9)	25% (3)	92% (11)	8% (1)	33% (4)	33% (4)	33% (4)	50% (6)	42% (5)	8% (1)	0%	0%	0%	0%	0%	0%	0%	83% (10)
Waikamoi Ridge	14% (38)	4% (12)	2% (6)	92% (253)	8% (21)	33% (90)	67% (184)	51% (138)	34% (91)	15% (41)	7% (20)	41% (112)	8% (21)	37% 100	5% (13)	1% (4)	0%	0%	0% (1)	1% (3)	10% (27)
Maui totals	13% (38)	4% (12)	2% (6)	92% (262)	8% (24)	35% (101)	65% (185)	50% (142)	34% (95)	16% (45)	9% (26)	41% (117)	8% (22)	35% (100)	5% (13)	1% (4)	0%	0%	0% (1)	1% (3)	13% (37)
State totals	5% (103)	4% (92)	5% (104)	77% (1605)	23% (485)	48% (986)	52% (1083)	41% (379)	33% (300)	26% (239)	20% (401)	53% (1071)	6% (122)	15% (296)	3% (58)	1% (26)	0% (5)	0% (8)	0% (1)	1% (16)	37% (399)

Comprehensive Statistical Summary of Survey Findings

	n someone of d hike?	Qu 1 1: Inform someone of return time		Qu 1 2: Expect Hazards?		Qu 1 3: Ever gotten lost?		Qu 1 4: Leave the marked trail?		Qu 1 5: Notice the signs?		Qu 1 7: Level of difficulty			Qu 1 8: Easier, Harder or the Same as Expected			
	no	yes	no	yes	no	yes	no	yes	no	yes	no	difficult	intermediate	easy	easier	harder	same	no expectations
Diamond Head	N/A	N/A	N/A	36% (240)	64% (427)	13% (86)	87% (577)	3% (22)	97% (631)	96% (644)	4% (25)	13% (88)	55% (365)	31% (36)	32% (209)	25% (165)	42% (272)	1% (7)
Manoa Falls	31% (22)	25% (57)	75% (168)	66% (158)	34% (81)	17% (39)	83% (195)	11% (26)	89% (210)	94% (224)	6% (15)	1% (4)	31% (75)	67% (160)	18% (43)	10% (24)	70% (165)	1% (3)
Maunawili Falls	45% (108)	23% (15)	77% (50)	89% (64)	11% (8)	13% (9)	87% (60)	6% (4)	94% (65)	90% (63)	10% (7)	28% (19)	72% (50)	0%	6% (4)	10% (7)	84% (58)	0%
Nakoa (Kahana Valley)	36% (19)	66% (25)	34% (13)	83% (44)	17% (9)	17% (9)	83% (44)	8% (4)	92% (49)	100% (53)	0%	0%	26% (14)	74% (40)	32% (16)	6% (3)	62% (31)	0%
Oahu totals	41% (194)	30% (99)	70% (231)	49% (506)	51% (525)	14% (143)	86% (876)	6% (56)	94% (955)	95% (984)	5% (47)	9% (92)	46% (473)	45% (455)	27% (272)	20% (199)	52% (526)	1% (10)
Awaawapuhi (Kokee)	68% 938)	39% (12)	61% (19)	61% (34)	39% (22)	13% (7)	87% (49)	18% (10)	82% (46)	98% (55)	2% (1)	36% (20)	59% (33)	5% (3)	16% (9)	29% (16)	54% (30)	2% (1)
Kalalau (Na Pali)	64% (107)	65% (39)	35% (21)	67% (254)	33% (123)	16% (59)	84% (314)	9% (33)	91% (339)	90% (338)	10% (38)	19% (71)	72% (265)	9% (32)	18% (67)	33% (121)	48% (176)	2% (6)
Keahua Arboretum	100% (26)	0%	100% 2)	15% (11)	85% (62)	0%	100% (12)	44% (4)	56% (5)	62% (54)	38% (35)	0%	0%	100% (2)	100% (2)	0%	0%	0%
Pihea (Kokee)	79% 9102)	11% (4)	89% (31)	49% (63)	51% (66)	14% (18)	86% (107)	4% (5)	96% (124)	92% (119)	8% (10)	9% (11)	58% (75)	33% (43)	14% (18)	21% (27)	55% (71)	10% (13)
Kauai totals	72% (273)	43% (55)	57% (73)	57% (362)	43% (273)	15% 984)	85% (482)	9% (52)	91% (514)	87% (568)	13% (84)	18% (102)	67% (373)	14% (80)	17% (96)	29% (164)	50% (277)	4% (20)
Ainapo	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Hamakua Ditch	40% (21)	24%(12)	76% (38)	72% (38)	28% (15)	17% (9)	83% (44)	6% (3)	94% (47)	79% (42)	21% (11)	0%	29% (14)	69% (34)	39% (19)	6% (3)	55% (27)	0%
Kahaualea	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Muliwai	12%(1)	37% (3)	63% (5)	75% (6)	25% (2)	33% (2)	67% (4)	50% (4)	50% (4)	75% (6)	25% (2)	63% (5)	25% (2)	12% (1)	0%	25% (2)	75% (5)	0%
Hawaii totals	36% (22)	26% (15)	74% (43)	72% (44)	28% (17)	19% (11)	81% (48)	12% (7)	88% (51)	79% (48)	21% (13)	9% (5)	28% (16)	61% (35)	33% (19)	9% (5)	58% (38)	0%
Waihee Ridge	17% (2)	83% (10)	17% (2)	83% (10)	17% (2)	37% (3)	63%(5)	33% (4)	67% (8)	100% (12)	0%	0%	75% (9)	25% (3)	0%	0%	83% (10)	17% (2)
Waikamoi Ridge	90% (256)	3% (8)	97% (221)	37% (102)	63% (172)	15% (42)	85% (239)	5% (13)	95% (261)	89% (244)	11% (30)	2% (6)	21% (56)	77% (210)	21% (57)	9% (23)	70% (187)	0%
Maui totals	87% (248)	7% (18)	93% (223)	40% (112)	61% (174)	16% (45)	84% (235)	6% (17)	94% (269)	89% (256)	11% (30)	2% (6)	23% (65)	75% (213)	20% (57)	8% (23)	71% (197)	1% (2)
State totals	63% (692)	25% (187)	75% (570)	51% (1024)	49% (989)	15% (283)	85% (1641)	7% (132)	93% (1789)	91% (1856)	9% (174)	11% (205)	48% (927)	41% (783)	23% (444)	21% (391)	54% (1033)	2% (32)

	Qu19: Hiking Experience Level			
	beginner	intermediate	advanced	
Diamond Head	50% (336)	39% (258)	10% (68)	
Manoa Falls	36% (86)	46% (109)	18% (43)	
Maunawili Falls	26% (18)	62% (43)	11% (8)	
Nakoa (Kahana Valley)	40% (21)	51% (27)	9% (5)	
Oahu totals	45% (461)	43% (437)	12% (124)	
Awaawapuhi (Kokee)	16% (9)	57% (31)	27% (15)	
Kalalau (Na Pali)	34% (126)	49% (180)	17% (64)	
Keahua Arboretum	0%	100% (2)	0%	
Pihea (Kokee)	22% (28)	61% (79)	17% (22)	
Kauai totals	29% (163)	53% (292)	18% (101)	
Ainapo	0%	0%	0%	
Hamakua Ditch	20% (10)	57% (28)	22% (11)	
Kahaualea	0%	0%	0%	
Muliwai	0%	62% (5)	38% (3)	
Hawaii totals	18% (10)	58% (33)	25% (14)	
Waihee Ridge	25% (3)	42% (5)	33% (4)	
Waikamoi Ridge	49% (132)	42% (113)	9% (25)	
Maui totals	48% (135)	42% (118)	10% (29)	
State totals	40% (769)	46% (880)	14% (268)	

OAHU

Diamond Head

Distance Traveled		Signs Noticed	
N/A		Don't Leave Trail	79% (534)
		Erosion	25% (170)
		No Smoking	23% (155)
		Directional	15% (98)
		Don't go past Railing	4% (24)
		Name	3% (20)
		General Information	3% (17)
		Preservation Area	3% (19)
		No Littering	2% (14)
		Hazard Warning Sign	2% (14)
Hazards Expected		Distance	1% (10)
		# of Stairs	1% (7)
Darkness	12% (77)	No Alcohol	.9% (6)
Slippery Trail	8% (55)	No Fires	.7% (5)
Sunburn/Heat	8% (54)	Carry Water	.7% (5)
Steep Cliffs	7% (44)	Keep Out	.7% (5)
Stairs	5% (31)	Hold onto Handrail	.6% (4)
People/Crowds	2% (13)	Elevation	.6% (4)
Rockfall	2% (11)	Be Safe	.4% (3)
Bugs/Insects	1% (7)	No Commercial Activities	.4% (3)
Washed out Trail	1% (5)	Close at 6	.4% (3)
Snakes	1% (4)	Dress Appropriately	.4% (3)
High Winds	.5% (3)	No Trespassing	.4% (3)
Rocky Terrain	.5% (3)	Rocks	.4% (3)
Dehydration	.15% (1)	Bring Light	.3% (2)
Fire	.15% (1)	No Pets	.3% (2)
		No Camping	.3% (2)

Manoa Falls

Distance Traveled		Signs Noticed	
86% (207)		falls	Restoration Area
10% (26)		past falls	Don't Leave Trail
3% (8)		partway	Rockfall
			Hazard Warning Sign
			Watershed
			Leptospirosis
			Name
			High theft area
			Directional
			Commercial Activity
			Don't go past sign
			No trespassing
			Mile Markers
			Flashflood
			Slippery
			Dogs on leash
Hazards Expected			
Slippery Trail	56% (134)		
Bugs/Insects	19% (45)		
Pigs	3% (7)		
Leptospirosis	2% (5)		
Rockfall	2% (4)		
Rain/Variable Weather	1% (3)		
Snakes	1% (2)		
Falling Branches	1% (2)		
Washed out Trail	1% (2)		

OAHU

Maunawili Falls

Distance Traveled		Signs Noticed	
74% (54)	falls	Name	46% (33)
22% (16)	partway	Don't Leave Trail	28% (20)
4% (3)	demo trail	Directional	18% (13)
		Leptospirosis	14% (10)
		Hazard Warning Sign	7% (5)
		Distance	7% (5)
		No trespassing	4% (3)
		Trail junction sign	3% (2)
		No short cuts	3% (2)
		Mile Markers	1% (1)

Hazards Expected

Slippery Trail	81% (58)
Bugs/Insects	11% (8)
Pigs	3% (2)
Rockfall	3% (2)

Nakoa (Kahana Valley)

Distance Traveled		Signs Noticed	
83% (44)	end	Directional	100% (53)
13% (7)	swimming	Name	40% (21)
4% (2)	other	Distance	25% (13)
		Ribbons	21% (11)
		Hunting	8% (4)
		Maps	6% (3)
		Restoration Area	4% (2)
		Mile Markers	4% (2)

Hazards Expected

Slippery Trail	57% (30)
Bugs/Insects	49% (26)
Flashflood	38% (20)
Sunburn/Heat	21% (11)
Washed out Trail	15% (8)
Rain/Variable Weather	13% (7)
Steep Cliffs	4% (2)

KAUAI

Awaawapuhi

Distance Traveled		Signs Noticed	
46% (26)	lookout	Mile Markers	98% (55)
39% (22)	nualolo lp	Directional	36% (20)
14% (8)	partway	Plant ID numbers	25% (14)
		Name	21% (12)
		Distance	16% (9)
		Hunting signs	7% (4)
		Hazard Warning Sign	2% (1)

Hazards Expected

Slippery Trail	37% (21)
Steep Cliffs	16% (9)
Hunting/Dogs	14% (8)
Sunburn/Heat	4% (2)
Washed out Trail	4% (2)
Crime	2% (1)

Kalalau

Distance Traveled		Signs Noticed	
51% (95)	H. Beach	Hazard Warning Sign	47% (179)
22% (42)	1/2 mi	Mile Markers	34% (127)
15% (28)	H. Falls	Beach hazards/no swim	29% (110)
7% (13)	Kalalau	Name	10% (34)
4% (8)	< 1/2 mi	Distance	10% (37)
		Directional	8% (30)
		Tidal wave warning	7% (28)
		Leptospirosis	5% (19)
		Rockfall	4% (15)
		Don't Leave Trail	3% (13)

Hazards Expected

Slippery Trail	47% (177)
Rockfall	20% (77)
Steep Cliffs	19% (73)
Sunburn/Heat	8% (31)
Bugs/Insects	6% (22)
Flashflood	6% (22)
Washed out Trail	5% (17)
Stream crossing	3% (12)
Rocky terrain	3% (10)
High Winds	2% (7)
Rough beach	2% (6)
Falling Branches	2% (6)
Dehydration	1% (2)
Pigs	1% (2)
Rain/Variable weather	1% (2)

Wear appropriate shoes	2% (7)
Cliffs	1% (5)
Closed Trail	1% (3)
Helipad	1% (3)
Uneven terrain	1% (3)
Go at own risk	1% (3)
Bring water	1% (2)
Restoration Area	1% (2)
Exposed roots	1% (2)
Flashflood	1% (2)
Pack out trash	1% (2)
Don't get hurt	.3% (1)

KAUAI

Keahua Arboretum

Distance Traveled	Signs Noticed
N/A	Hazard Warning Sign 40% (37)
	Name 19% (18)
	Danger stream crossing 8% (7)
	No dogs 2% (2)
	Swim at own risk 2% (2)

Hazards Expected

Bugs/Insects	12% (9)
Flashflood	3% (2)
Washed out Trail	3% (2)

Pihea

Distance Traveled	Signs Noticed
47% (55)	vista Mile Markers 79% (102)
20% (24)	Hanalei -end Directional 50% (65)
17% (20)	A. Swamp Name 32% (41)
16% (19)	< vista Distance 24% (31)
	Slippery when wet 9% (12)
	Don't Leave Trail 5% (6)
	Protect, respect, conserve 2% (2)
	Don't sit on railing 2% (2)
	Start here 2% (2)
	Topographic 2% (2)
	No horses 2% (2)

Hazards Expected

Slippery Trail	36% (47)
Steep Cliffs	16% (20)
Rain/variable weather	6% (7)
Bugs/Insects	5% (6)
Sunburn/Heat	2% (3)
Hunters/dogs	2% (2)
Fog	2% (2)

HAWAII

Muliwai

Distance Traveled		Signs Noticed	
88% (7)	partway	Helipad	50% (4)
12% (1)	end	Distance	25% (2)
		Name	25% (2)
Hazards Expected			
Slippery Trail	50% (4)		
Falling Branches	25% (2)		
Washed out Trail	25% (2)		
Sunburn/Heat	25% (2)		
Bugs/Insects	25% (2)		
Leptospirosis	25% (2)		

Ainapo

No Data

Hamakua Ditch

Distance Traveled		Signs Noticed	
38% (20)	overlook	No Trespassing	72% (38)
30% (16)	partway	Hazard Warning Sign	17% (9)
28% (15)	bamboo area	Forest Reserve	15% (8)
4% (2)	other	Don't Mess up Environmen	4% (2)
		Name	2% (1)
Hazards Expected			
Slippery Trail	60% (32)		
Steep Cliffs	13% (7)		
Falling Branches	9% (5)		
Bugs/Insects	9% (5)		
Sunburn/Heat	8% (4)		
Washed out Trail	6% (3)		
Rain/variable weather	6% (3)		
Flashflood	4% (2)		

Kahaualea

No Data

MAUI

Waihee

Distance Traveled		Signs Noticed	
67% (8)	end	Mile Markers	67% (8)
33% (4)	bench	Distance	33% (4)
		Directional	33% (4)
		Don't Leave Trail	33% (4)
Hazards Expected			
Slippery Trail	83% (10)		
Bugs/Insects	17% (2)		

Waikamoi

Distance Traveled		Signs Noticed	
51% (139)	partway	Plant ID	64% (175)
38% (104)	end	Don't Leave Trail	19% (53)
11% (31)	loop	"Quiet trees at work"	19% (51)
		End of Trail	11% (30)
		Name	9% (26)
		Directional	4% (10)
		Map sign/trailhead	2% (6)
		Distance	2% (6)
		Restricted Area	1% (4)
		Don't Block Roadway	1% (2)
Hazards Expected			
Slippery Trail	30% (82)		
Bugs/Insects	10% (27)		
Snakes	1% (4)		
Poisonous Frogs	1% (4)		
Falling Branches	1% (3)		
Sunburn/Heat	1% (2)		
Pigs	1% (2)		
Mudslide	1% (2)		

Appendix C: Hiker Comments

Summary by Island and Trail

Oahu

Diamond Head

8/27/00 (50 surveys)

- no comments

9/16/00 (83 surveys)

- beautiful and enjoyed self (6)
- requests lights in circular stairs and tunnel (6)
- request advance warning that need light (3)
- request for state to rent flashlights
- appreciation for dark conditions
- request for state to sell water (2)
- concern about “non-profit” commercial activities (2)
- appreciated “guide” at top giving information on history and rain forest walks (2)
- mention of lack of railing at top (2)
- suggestion for mile markers
- request for additional trashcans and recycling of cans/bottles
- mention of difficulty at top due to erosion
- request for additional street signage to direct to entrance
- request for additional trails among bunkers at top
- mention of surprise at lack of warning signs regarding heat and strenuousness of uphill climb
- expression of irritation by people littering and graffiti at top

9/30/00 (44 surveys)

- request light in tunnel and circular staircase (5)
- request advance warning on why lights are needed (4)
- request for state to rent flashlights (2)
- expression of dislike for any plan to place lights in tunnel
- request for additional handrails in tunnel
- expression of appreciation for pavement and good condition of trail (2)
- expression of appreciation for maintenance and cleaning of trail (2)
- request for benches along the trail to allow for rest
- request for maintenance on chain link fence

10/25/00 (32 surveys)

- wonderful trail (2)
- request light in tunnel and circular staircase (2)
- expression of concern about commercial vendors
- request reflectors in tunnel
- request more no smoking signs in english and in japanese
- expression of concern about amount of trash and litter on trail, request for additional trash cans and possible fines for littering
- mentioned that did not expect steps or strenuous hike
- request for warning about low ceiling in tunnel

11/2/00 (36 surveys)

- request for lights in tunnel and circular stairs (4)
- mention of need for maintenance along trail: rusty railing and broken step
- request for no smoking signs in japanese
- request for state to rent or sell flashlights
- request for reflective tape on handrails
- request for watch your head sign in bunker
- expression of opinion that fee is too low
- request for state to sell water

11/12/00 (76 surveys)

- request for light in tunnel and circular stairs (5)
- request better advance warning about need for flashlight (2)
- expression of opinion that flashlights should be mandatory (2)
- request for reflective tape on stairs
- request for renovation at top, to make path easier and steps smaller (4)
- request to open more bunkers (2)
- request for warning to wear sturdy shoes (3)
- request for state parks personnel at top to provide information and first aid if necessary (2)
- request for benches along trail
- expression of concern about fire
- expression of dislike of fee
- request to use military road or build cable car as alternate method to top for disabled and elderly
- request for state to sell water

- expression of appreciation for new fencing keeping people on trail

Manoa Falls

9/2/00 (25 surveys)

- expression of dislike for commercial vendors (selling shirts) at trail (2)
- request for additional street signage to trailhead
- expression of appreciation for well-maintained trail

9/30/00 (39 surveys)

- expression of appreciation for natural character of the trail (2)
- expression of confusion on how to hike to Nuuanu lookout; unsure if hiking on allowed trail or in prohibited watershed area so turned back (2)
- request for additional street signage to trailhead
- expression of dislike of commercial vendors at trailhead
- expression of appreciation for well-maintained trail
- expression of concern for trash, paper and beer bottles seen on trail
- expression of dislike for metal wiring on steps
- request for a connector trail

10/13/00 (8 surveys)

- no comments

11/2/00 (13 surveys)

- expression of appreciation for trail and natural character (2)
- expression of appreciation for improvements made (gravel) since last year

11/5/00 (30 surveys)

- request for better street signage to trailhead
- expression of opinion that commercial tours should not be allowed on trail
- expression of appreciation for trail improvements (gravel)
- expression of opinion that commercial tours should be limited in number and prohibited on weekends

Maunawili Falls

9/17/00 (6 surveys)

- request for donation box
- request for mile markers

9/29/00 (1 survey)

- no comments

9/30/00 (8 surveys)

- no comments

10/15/00 (5 surveys)

- expression of appreciation for the trail and the Na Ala Hele system (2)
- request for additional easy trails in the state
- request for additional directional signage and for mile markers

10/26/00 (3 surveys)

- no comments

11/5/00 (1 survey)

- no comments

Nakoa (Kahana Valley)

9/2/00 (7 surveys)

- noticed ribbons

9/24/00 (8 surveys)

- no comments

10/13/00 (1 survey)

- no comments

10/15/00 (1 survey)

- no comments

Kauai

Awaawapuhi

9/23/00 (12 surveys)

- expression of concern about hunters in proximity to trail (4)
- expression of pleasure with maintenance of trail (5)
- request for signs reminding people the trail goes down and that they will have to come back up and suggestion of altitude signs
- request for trashcan at lookout or a sign reminding people to pack out their trash
- expression of appreciation for mileage markers

10/13/00 (7 surveys)

- expression of pleasure with trail (2)

- expression of concern about overexposure/overuse of trail and of preference that it remain a low-use trail

10/14/00 (8 surveys)

- expression of opinion that trail was well marked and well maintained (3)
- appreciation of beauty of trail (2)
- request for warning about need for safe shoes and sufficient water
- expression of opinion that directional signage unclear coming from Nualolo
- request for drinking fountain and emergency phone
- suggestion for sign-in stations

Kalalau

9/22/00 (32 surveys)

- appreciation of beauty of trail (6)
- expression of need for better bathroom facilities (2)
- request for sign emphasizing the need for water and proper footwear (2)
- request for signage warning not to leave trail (2)
- request for rope to assist on the trail (2)
- expression of need for infrastructure improvements, including parking and trash
- suggestion of charging for use
- expression of dislike for camping permitting system (too limited)
- request for state to offer refreshments and restrooms at top
- request for more mileage markers
- request for daily weather signs at trailhead
- request for viewing map at first viewing area (names of valleys and their significance)
- request for better directional signage to Hanakapiai Falls
- request warning that last beach is a nude beach

9/23/00 (76 surveys)

- appreciation of beauty of trail (16)
- request for additional mileage markers (7)
- request for water fountain at trailhead (7)
- request better directional signage to Hanakapiai Falls (5)
- request sign emphasizing need for water (5)
- request water facilities along trail (3)

- request warning sign at trailhead during bad weather (2)
- request “Caution Slippery Trail when Raining” sign (2)
- request sign emphasizing need for proper footwear (2)
- requests warning about steep climb up and down hill (2)
- request restrictions on helicopters (2)
- request for stream crossing signs and warning to bring water shoes
- request signs alerting people to bring flares and lighters
- request sign at trailhead giving a trail rating
- expression of opinion that permit process is too slow
- suggest user fee for trail

10/13/00 (45 surveys)

- request for directional signage to Hanakapiai Falls (3)
- request for trail improvements to Hanakapiai Falls (2)
- request for additional parking at trailhead (3)
- expressed appreciation for beauty of trail (3)
- request for additional mileage markers (3)
- suggestion of footpath off roadway to safely walk from parking to trailhead
- requested additional trashcans and trash pickup
- expressed unawareness of permit requirement to go along coast beyond Hanakapiai Beach without permit
- request for additional signage at Hanakapiai Beach warning of water hazards
- request for reduction in helicopters overhead

10/14/00 (41 surveys)

- appreciation for trail (6)
- request for directional signage to Hanakapiai Falls (5) (two mentioned passing several tourists on way to Kalalau thinking they were on the way to the Falls)
- request reduction in helicopters overhead
- request for mileage on directional signage
- request for trashcans at Hanakapiai Beach or signs reminding to pack out trash
- expression of appreciation for trail markers at Hanakoa and for the maintenance workers at Kalalau

- request for reminder at trailhead that need permit to go beyond Hanakapiai Beach along the coast or to camp
- request for sign-in at trailhead
- request for stay on trail signs
- request for slippery when wet signs

Keahua

9/22/00 (1 survey)

- no comments

9/24/00 (24 surveys)

- request labeling of plants and trees (3)
- request signage on the history of the Arboretum

10/13/00 (6 surveys)

- beautiful

10/15/00 (21 surveys)

- request for labeling of trees (2)
- request for a walking brochure describing the trees and area (2)
- expression of opinion that area was good place to exercise dogs (2)

Pihea

9/22/00 (20 surveys)

- appreciation for beauty of trail (2)
- appreciation for boardwalk (2)
- suggest limitations on the number of hikers to preserve the trails
- request for inspection of boardwalk; mentioned one plank broke when walked on
- request signs along trail that indicate how far have hiked
- request signs that remind of need for water

9/24/00 (20 surveys)

- appreciation for beauty of trail (4)
- appreciation for boardwalk
- expression of opinion that directional sign at Alakai intersection confusing
- request for pit toilet somewhere along the trail if possible
- request to place altitude on signs
- request to place mileage to destinations on directional signs

10/13/00 (3 surveys)

- no comments

10/15/00 (19 surveys)

- request sign warning of slipperiness (4)
- request for handrails at vista (3)
- appreciation of beauty of trail (2)
- expression of appreciation for mileage markers
- request for restrooms
- request for additional information at trail intersections
- request for species identification signs
- request for birdwatching platform raised to tree level

Hawai'i

Aīnapo: No surveys

Hamakua Ditch

9/29/00 (1 survey)

- no comments

9/30/00 (12 surveys)

- expression of appreciation for natural character of trail (2)
- request for map at the bottom

10/21/00 (9 surveys)

- no comments

Kahaualea: No surveys

Muliwai

9/29/00 (1 survey)

- no comments

10/20/00 (2 surveys)

- no comments

10/22/00 (3 surveys)

- no comments

Maui

Waikamoi

9/8/00 (12 surveys)

- no comments

9/10/00 (28 surveys)

- appreciation for beauty of trail (3)
- request for additional directional signs (2)
- request for additional gravel on trail

10/6/00 (40 surveys)

- request for additional directional signage (4)
- request for additional signage (2)
- request for restrooms (2)
- expression of appreciation for gravel
- mention of slipperiness of trail
- request for additional parking

10/7/00 (40 surveys)

- request for additional directional markings (5)
- appreciation for the beauty of the trail (4)
- request for restrooms (4)
- appreciation for the botanical markers (2)
- request for additional information about the trees (history)
- appreciation for the benches (2)
- expression of concern about slickness of trail (2)
- expression of disappointment of no waterfall
- request for sign indicating the time required to hike
- expression of opinion that parking lot is a poor area to place signs due to number of cars

Waihee

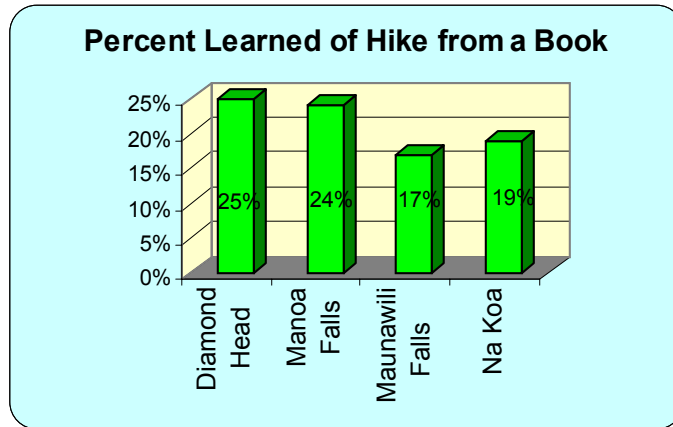
9/9/00 (4 surveys)

- no comments

10/6/00 & 10/7/00 (1 survey on 10/7/00)

- no comments

Appendix D: Summaries of Hiking and Island Guidebooks



Guidebooks Used on Oahu Trails

One question on our survey asked hikers how they learned about the trail. On Oahu 47% learned of the trail by “word of mouth”; 24% from a guidebook; 7% were local residents and simply knew about it as local knowledge; 6% from their hotels; and 1% from the Internet. Of the hikers that learned of the trail from a book, the following is a list of the books various groups mentioned. Other groups did not remember or did not comment on the name of the book they may have used. While individual information was recorded, groups of hikers usually used the same books and were counted as one. The following list are ordered from most to least reported.

Diamond Head (78 groups)

Frommers
Fodor's
Lonely Planet
101 Things to do in Hawaii
Hawaii on \$70 a Day
Unofficial Guide to Hawaii
AAA Tour Guide
Kontiki

Maunawili Falls (3 groups)

Yellow cover book

Nakoa, Kahana Valley (3 groups)

Hikers Guide to Oahu
Hawaiian Hiking Trails
Outrigger Guide

Manoa Falls Trail (25 groups)

Frommers
101 Things to do in Hawaii
Best Hikes on Oahu
Hikes on Oahu
Fodor's
Hawaiian Hiking Trails
Hikers Guide to Oahu
Hikers Guide to Hawaii
Hiking Trails in Hawaii
Lonely Planet - Hawaii

DIAMOND HEAD, OAHU

<p>Frommers: Hawaii on \$70 a Day Diamond Head, Oahu</p> <p>Rating: Moderate, but steep Distance: 1.4 miles (RT) Time: 1 hour Elevation: 761 feet Equipment: Decent shoes (rubber soled), flashlight, binoculars, drinking water (very important), hat, camera</p>	<p>Recommends going early (just after the 6:30am opening) before the noon sun.</p>
<p>Fodor's 2001 Hawaii Diamond Head, Oahu</p> <p>Rating: None given Distance: None given Time: None given Elevation Gain: 760 feet Equipment: Flashlight</p>	<p>Mentions that many books describe the "99 stairs" and that this is true of one of the four flights of stairs only.</p> <p>It mentions that the flashlight is needed for the narrow tunnel and a very dark flight of winding stairs.</p> <p>Informs Oahu has 33 major trails and you should call/write DLNR (room130) for a free recreation map).</p>
<p>Lonely Planet - Hawaii Diamond Head, Oahu</p> <p>Rating: Fairly steep Distance: 3/4 miles one-way Time: 30 min. one-way Elevation Gain: 560 ft Equipment: Water</p>	<p>Describes this as a fairly steep hike. It mentions that it is usually hot in the crater and that it is a good idea to bring water. It then explains that the park advises people to bring a flashlight for the tunnel, but that you really don't have to have one. It mentions very briefly that there is a "narrow spiral staircase inside an unlit bunker," but doesn't mention that you might want a flashlight for this part.</p> <p>It warns of steep drops as you're on a crater rim.</p>
<p>Unofficial Guide to Hawaii Diamond Head, Oahu</p> <p>Rating: Moderate Distance: .7 miles to summit Time: 45 minute walk Elevation Gain: None given Equipment: None given</p>	<p>No comments</p>

MANOA FALLS

<p>Frommers Manoa Falls, Oahu</p> <p>Rating: Easy, good for families Distance: .8 miles to the falls Time: 1 hour (RT) Elevation Gain: None Given Equipment: Mosquito repellent</p>	<p>Often muddy</p> <p>Park in residential area below the former Paradise Park</p>
<p>Hawaiian Hiking Trails Manoa Falls, Oahu</p> <p>Rating: Easy Distance: 1.6 mile (RT) Time: 2 hours (RT) Elevation: 1,200 feet Equipment: None given</p>	<p>Recommends avoiding wading in the pool during high water since rocks may be swept over the falls.</p> <p>Do not climb beyond the falls into the closed watershed. Entry is strictly prohibited by law.</p> <p>Muddy trail.</p>
<p>Hikers Guide to Oahu Manoa Falls, Oahu</p> <p>Rating: Novice-Intermediate Distance: 8 miles (RT) Time: None Given Elevation Gain: 1,700 feet Equipment: None Given</p>	<p><i>Ball described this trail as part of the larger Ahuialama –Pu'u Ohia trail</i></p> <p>Manoa Falls makes a refreshing rest stop or good place to turn around for the novice hikers.</p>
<p>Lonely Planet - Hawaii: Manoa Falls</p> <p>Rating: None given Distance: 3/4 mile one-way Time: 30 min. one-way Elevation Gain: None given Equipment: None suggested</p>	<p>Mentions that there is a pool at the bottom of the falls, but that it is not deep enough to swim in and that occasional falling rocks make it inadvisable anyway.</p> <p>The trail is described as muddy, but not bad. However, it warns of tree roots along the trail, which it describes as "ankle-breakers." Some areas of the trail are packed clay however, which can be slippery.</p>

MAUNAWILI FALLS

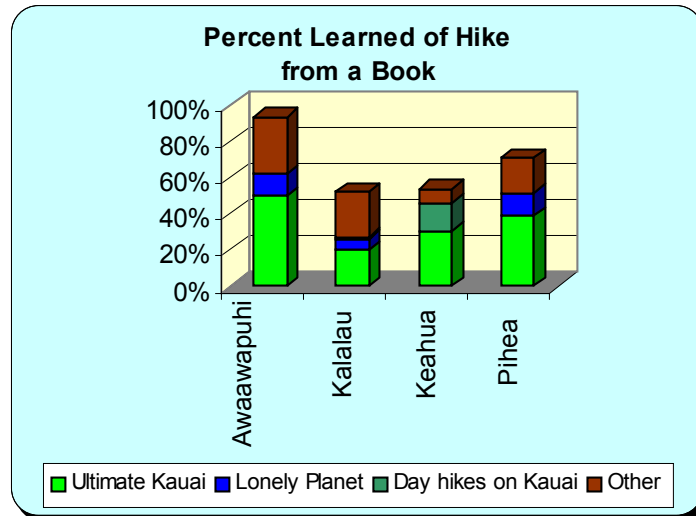
No specific guidebook was mentioned as a reference by the trail users interviewed, but these books were chosen to get an idea of how this trail was reported.

<p>Day Hikes on Oahu</p> <p>Maunawili Falls Trail</p> <p>Rating: None given Distance: 2.6 miles (round trip) Time: 1 hour and 45 minutes Elevation: 400 feet Topography map: USGS Koko Head and Honolulu Equipment: None given</p>	<p>Described the trail as a beautiful new forest service trail. Follow Maunawili Stream to a 20 feet waterfall and deep swimming pool.</p> <p>Provided: Driving directions, hiking directions and a hand drawn map</p>
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<p>The Hikers Guide to Oahu-Revised Edition</p> <p>Maunawili Falls, Oahu</p> <p>Rating: Novice Distance: 3 miles (round trip) Time: 1 hour and 45 minutes Elevation: 400 feet Equipment: Mosquito repellent</p> <p>Warns to watch your footing when crossing the stream. If possible wear tabis. Don't cross the stream if the water is above your knees.</p>	<p>Informs that the route initially follows a public right of way through private property, therefore, stay on the trail.</p> <p>The route is short, pleasant and leads to a superb swimming hole. To avoid crowds, go on a weekday.</p> <p>Trail is well built, but may be muddy and deteriorated in spots from heavy traffic.</p>
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NAKOA, KAHANA VALLEY

<p>The Hikers Guide to Oahu-Revised Edition</p> <p>Nakoa, Kahana Valley, Oahu</p> <p><i>Describes Nakoa as part of a double loop trail in Kahana Valley.</i></p> <p>Rating: Novice to intermediate Distance: 5 miles (Nakoa Only) Time: None Given Elevation: 400 feet Equipment: Mosquito repellent</p>	<p>Warns of stream crossings and suggests wearing tabis. Don't cross the stream if the water is above your knees.</p> <p>Informs that the trail is usually muddy and sometimes overgrown and occasionally obscured.</p>
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Guidebooks Used on Kauai Trails

One question on our survey asked hikers how they learned about the trail. On Kauai 43% from a guidebook; 22% learned of the trail by “word of mouth”; 10% were local residents and simply knew about it as local knowledge; 7% saw it as driving; 7% from a map; 5% from their hotels; and 3% from Kokee Museum. Of the hikers that learned of the trail from a book, the following is a list of the books various groups mentioned. Other groups did not remember or did not comment on the name of the book they may have used. While individual information was recorded, groups of hikers usually used the same books and were counted as one. The following lists are ordered from most to least reported. Unique to Kauai, the book *Ultimate Kauai* was reported significantly more often than any other book (50%).

Awaawapuhi Trail (16 groups)

Ultimate Kauai
Lonely Planet
Kauai Trails
Hike Kauai
Moon publishing Travel
Essential Kauai

Pihea (31 groups)

Ultimate Kauai
Lonely Planet
Fodor's
Rough Guide to Hawaii
Hidden Hawaii
Falcon Guide-Exploring Hawaii
Best of Hawaii
Eyewitness Travel Guide
Hiking Hawaii

Keahua (13 groups)

Ultimate Kauai
Day Hikes on Kauai
Kauai Trailblazers

Kalalau Trail (84 groups)

Ultimate Kauai
Lonely Planet
Frommers
101 Things to do on Kauai
Off the Beaten Path
Underground Kauai
Fodor's
Kauai Tourist Guide
Rough Guide
Hawaii on \$75 or Less
Day Hikes on Kauai
Sierra Club: Adventures in Hawaii
VisaVi
Na Pali Coast
Extreme Adventures of Hawaii

AWAAWAPUHI TRAIL

<p>Ultimate Kauai Awaawapuhi, Kauai.</p> <p>Rating: None given Distance: 9 -10 miles Time: None given Elevation: None given Equipment: Hiking boots</p> <p>Warns not to start later than 10am</p> <p>Suggests not going if it has been raining a lot at Koke'e Museum</p>	<p>Provides a map.</p> <p>Recommends starting from the Nualolo Trail, then take the Nualolo Cliff trail, which connects to the Awaawapuhi trail.</p> <p>Informs that there is a brochure of the plant names along the trail, provided at the Museum.</p> <p>Recommends bringing twice as much water as you think you'll need.</p>
<p>Lonely Planet – Hawaii Awaawapuhi Trail</p> <p>Rating: Strenuous, when combined with Nualolo Distance: 3 1/4 miles one-way Time: None given Elevation Gain: 1600 ft descent one-way Equipment: Water</p>	<p>Mentions the connection with Nualolo trail and that this entire hike would be around 10 miles.</p> <p>One of the benefits of the trail is the cliff-top views along the hike.</p>
<p>Kauai Trails Awaawapuhi, Kauai.</p> <p>Rating: Strenuous Distance: 6 ½ miles Time: 3 ¼ hours Elevation: 1560 feet Topography map: Haena, Makaha Point Equipment: Hiking boots</p> <p>Warns not to start later than 10am</p>	<p>Provided kind of trail: in and out</p> <p>Suggests picking up the plant guide at Koke'e museum</p> <p>If looking for a longer hike, she suggests doing a loop adding on the Nualolo Cliffs trail and the regular Nualolo trail.</p>
<p>Hawaii From \$70 A Day, Frommers 32nd Edition, Awaawapuhi, Kauai</p> <p>Rating: Strenuous Distance: 6.5 mile hike round trip Time: 3 hours Elevation: None given Equipment: None given</p> <p>Not recommended for anyone with vertigo.</p>	<p>Provides contact information for the State Division of Parks, Division of Forestry and Wildlife, Kauai County Parks and Recreation and Kokee Lodge Manager.</p> <p>Says that it is well marked and maintained and provides quarter-mile markers.</p> <p>Mentions the connection to the Nualolo Trail.</p>

Summaries of Hiking and Island Guidebooks

<p>Kauai Trailblazers Awaawapuhi, Kauai</p> <p>Rating: None given Distance: None given Time: None given Elevation: None given Equipment: None given</p> <p>Warns: prepare for rain and wind and gear up for a full day hike.</p> <p>Warns not to go beyond the railings at the overlook.</p>	<p>Informs there is a plant guide available at the Koke'e Museum.</p> <p>Informs that the end of the trail is .5 miles from the Nualolo junction.</p> <p>Describes the connecting Nualolo and Kaluapuhi trails.</p>
<p>Sierra Club Awaawapuhi, Kauai</p> <p>Rating: Moderate to strenuous Distance: 10.5 miles Time: None given Elevation: None given Topography map: Haena, Makaha Point Equipment: Hiking boots</p> <p>Warns not to start later than 10am</p>	<p>Describes this trail as a loop with the Nualolo Trail and the Nualolo Cliffs Trail</p> <p>Recommends doing a shuttle system with two cars, to eliminate an extra 1.3 miles of walking along the road to the car.</p>
<p>Hawaii Off the Beaten Track Awaawapuhi, Kauai</p> <p>Rating: None given Distance: 10 miles for this loop. Time: None given Elevation: None given Equipment: None given Warning: None given</p>	<p>Mentions Awaawapuhi in reference to its connection with the Nualolo trail. They gauged this loop hike as being 10 miles long.</p> <p>Encourages people, by saying it is the most stunning view.</p>
<p>Hawaii: The Rough Guide Awaawapuhi, Kauai</p> <p>Rating: None given Distance: 3 miles one way. Time: 1 hours one way Elevation: None given Equipment: None given Warning: None given</p>	<p>Suggests picking up the botanical guide at Kokee Museum</p> <p>Suggests connecting to the Nualolo Trail and cliffs trail for a longer day hike.</p>

Moon Publishing Travel Awaawapuhi, Kauai Rating: Slightly strenuous Distance: 3 miles one way Time: None Given Elevation Gain: None Given Equipment: None Given	The trail is one of the most rewarding hikes on Kauai. It is well marked. You can connect to the Nualolo Trail at the 3-mile marker.
Hikers Guide to the Hawaiian Islands Awaawapuhi, Oahu Rating: Intermediate Distance: 6.5 miles (RT) Time: None Given Elevation Gain: 1,600 feet Equipment: None Given	Suggests if you only have time for one trail in Kokee, this would be the one to do.

KALALAU, KAUAI

Ultimate Kauai, 3rd edition Kalalau, Kauai Rating: None given Distance: 2 miles one way Time: Beach to falls: 2.5 hours (RT) Elevation: 5,00 feet Equipment: None given Warns that the trail is narrow and has hazards. Warns that you can swim at the falls, but watch out for falling rocks. Describes beach as beautiful, but treacherous.	Hiking section: Recommends <i>Kauai Trails</i> by Kathy Morey for a book specifically on hiking. Also recommends contacting the Division of State Parks at 3060 Ewa Street, Room 306 or the Division of Parks and Recreation at 4444 Rice Street, #130 if planning to do a lot of hiking on Kauai. Provides a GIS shaded relief map drawn at a 45-degree angle to give a perspective of how much climbing is involved. Approximately. 5,000 feet. Explains that Hanakapia beach and falls is as far as you can hike without a permit. If you want to hike only one-way, Captain Zodiac offers drop off and pick-ups to Kalalau and Miloli'i.
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<p>Lonely Planet Kalalau, Kauai</p> <p>Rating: Moderate to strenuous Distance: 11 miles to Kalalau, 2 miles one way to Time: 7 hours if in good shape to Kalalau. Elevation: None given Equipment: Good shoes, walking stick,</p> <p>Warns:</p> <ul style="list-style-type: none"> ➤ You need to be well prepared for this hike (in rugged wilderness) ➤ Sierra Club says the hike is from moderate to strenuous. ➤ Can be muddy and slippery - a walking stick would be helpful ➤ Rocks in cliffs are crumbly- don't try to climb ➤ Don't camp beneath rock walls - goats can bring rocks down on you ➤ Need Shoes w/good traction ➤ Be sure to boil or treat all stream water before use. ➤ Warns the beach at has unpredictable rip currents year round, especially during the winter months. ➤ Trail to falls is a little longer than to the beach, because of the rock crossings. Due to flash floods, only attempt this hike during fair weather. It is 25 minutes to a sign that warns, Warns: "Hazard: Keep away from stream during heavy rainfall. Stream floods suddenly". 	<p>Hikers in good shape can do 11 mile in approximately 7 hours, but they recommend the average hiker break it up and spend a night camping in 1 of 2 valleys along the way.</p> <p>Describes the Kalalau trail in three sections: Ke'e to Hanakapia (2 miles), Hanakapia to Hanakoa (4 miles) and Hanakoa to Kalalau (5 miles).</p> <p>Permits required if traveling past Hanakapia, even if not camping. Contact the Division of State Park for permits.</p> <p>Ke'e to Hanakapia: Lets people know that after 30 minutes, they will get to the first view of the coast and is worth going at least this far.</p>
<p>Hawaii Off the Beaten Track Kalalau, Kauai</p> <p>Rating: None given Distance: Day hike would be 2 miles to the beach and 2 miles to the falls Time: Entire 11 miles to Kalalau takes at least 2 days. Elevation: None given Equipment: None given Warnings: Not an easy trail</p>	<p>Short paragraph on Kalalau describes the trail as not easy. Swimming is not recommended.</p>

<p>Kauai's Underground Guide 16th edition Kalalau, Kauai</p> <p>Rating: None given Distance: 2 miles one way Time: Beach to falls: 2.5 hours roundtrip Elevation: None given Equipment: Shoes with good traction for slippery roads and mud (instead of jogging shoes or slippers); sunscreen, strong insect repellent; a hat; perhaps a nylon poncho; and a walking stick.</p> <p>Warns when it rains, the trail gets muddy and dangerously slippery. Mention that they actually saw a woman slip over the steep edge, but luckily her friend caught her in time and pulled her up.</p> <p>Warns that the stream can flood, so be careful crossing.</p> <p>Warns about dangerous beach conditions at and tells of a hiker that got pulled out into the ocean when standing in just knee-deep water.</p> <p>Warns to carry own drinking water, because leptospirosis is found in almost all Kauai streams.</p>	<p>Suggests before your trip, send a 10"x13" (\$3.20) stamped and self-addressed envelope to the Division of Forestry, Kauai District, for a free information packet with maps and descriptions of trails in forest preserve. For free information on the Na Pali, send another stamped, self- addressed envelop to the Division of State Parks or go to www.hawaii.gov/dlnr/dsp/kauai.html.</p> <p>Recommends <i>Hiking Kauai</i> by Bob Smith, www.maui.net/~hionfoot or <i>Kauai Trails</i> by Kathy Morey.</p> <p>Recommends when on Kauai call the Division of Forestry for a report on current trail conditions. If you visit their office you can receive a free topography map. Mentions that you can also call Kauai Visitor's Bureau for advise of arranging hiking trips or guides.</p>
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<p>Fodor's 2001: Kalalau Kalalau, Kauai</p> <p>Rating: None given Distance: None given Time: None given Elevation: None given Equipment: None given</p> <p>Suggests starting early, wearing rugged shoes and bringing a picnic lunch and plenty of water.</p> <p>Warns that the trail dips and rises along misty, oceanside cliffs.</p> <p>Warns not to hike during rainy weather due to flash flood dangers.</p> <p>Warns that Hanakapia beach has fierce waves in the winter.</p>	<p>Describes the Na Pali as the ultimate adventure hike and is worth going on, even if you just hike the first two miles to .</p> <p>Mentions that those in good shape may want to hike up to the falls and pool on an unmaintained trail for an additional two miles.</p> <p>Campsites exist at , but the wait list for permits is long. Backpackers must obtain permits from DLNR with a limit of 5 nights.</p> <p>Tour boats are no longer operating out of Hanalei, but during summer months they run tours from Port Allen. Kayakers can rent own kayaks and tour the coast.</p>
<p>Hawaii From \$70 A Day, Frommers 32nd Edition, Kalalau, Kauai</p> <p>Rating: None given Distance: 2 miles to beach Time: 2 hours to beach. Beach to falls: 3 hours roundtrip Elevation: None given Equipment: None given</p> <p>Warns first mile is uphill.</p> <p>Warns that there are strong currents and no lifeguards at the beach, so swim at your own risk.</p> <p>Warns to bring water.</p>	<p>Provides contact information: State Division of Parks, Division of Forestry and Wildlife, Kauai County Parks and Recreation, and Kokee Lodge Manager.</p> <p>Informs reader that a permit is needed if you plan to hike past Beach and Falls. Obtained from Kauai State Parks Office.</p>

<p>Kauai Trailblazers Kalalau, Kauai</p> <p>Rating: None given Distance: 4 miles roundtrip, 4 more miles to falls and back to beach. Time: None given Elevation: None given Equipment: None given</p> <p>Warns to start early, because it begins with a steep climb and gets hot.</p> <p>Warns that you will need to cross the stream at beach level, over rocks, which is not easy without getting your feet wet. A rope handrail is sometimes available to help hikers.</p> <p>Warns to be careful at the beach, because people have drowned. Do not go near the water except for the calmest of summer days. Waves knock people down, even at the shoreline.</p>	<p>Tells you where to park if the parking lot is full.</p> <p>Informs the first viewpoint is .5 miles in.</p> <p>Gives directions to the falls</p>
<p>Hiking Kauai: The Garden Isle Kalalau, Kauai</p> <p>Rating: To Beach – Hardy Family To Falls – Strenuous Distance: To Beach – 2 miles one way To Falls – 2 miles one way Time: To Beach – 1 hour, one way To Falls – 1 ½ hours one way Elevation: To Beach – 600 feet To Falls – 800 feet Equipment: To Beach – food, water, hiking boots To Falls – food, water, boots, tennis shoes are OK, raingear</p>	<p>Warns that beach is hazardous and that there have been drownings.</p> <p>Warns that cars left overnight get vandalized. Suggests alternatives to renting a car include: hitchhiking, or catching a taxi from Princeville Airport.</p> <p>Advised that a permit is needed - and can be obtained at the State Parks Division.</p>

<p>Kauai Trails, Kalalau (<u>Ke'e to Hanakapia Beach</u>)</p> <p>Rating: Moderate to strenuous Distance: 4 miles round trip Time: 2 to 2 ½ hours, depending on the load of your backpack Elevation: 1060 feet Equipment: None given</p> <p>Kauai Trails, Kalalau (<u>Beach to falls</u>)</p> <p>Rating: Strenuous to moderate Distance: 4 miles roundtrip Time: 3-4 hours Elevation: 760 feet Equipment: Hiking boots mandatory</p> <p>Warns of difficulty and that this trail is not for novice hikers.</p> <p>Warns that the trail can get narrow and rocky, therefore there is poor footing.</p> <p>Warns that there are some steep climbs and descents.</p> <p>Warns that stream crossing may be difficult.</p> <p>Warns camping areas are filthy, overused, crowded, and bug and toad infested.</p>	<p>Informed the reader that the trail is an “in and out” trail.</p> <p>Listed the name of topography map as Haena.</p> <p>Notes that general conditions on the trail are poor, but this is due to soil erosion from heavy traffic, and not poor maintenance.</p>
<p>Sierra Club Kalalau, Kauai</p> <p>Rating: None given Distance: None given Time: None given Elevation: None given Equipment: Recommends boots, but have also hiked in thick-soled strap-on sandals because of the stream crossings.</p> <p>Warns to bring sunscreen, rain gear.</p> <p>Warns not to cross-stream if it appears too dangerous.</p> <p>Warns about beach hazards and mentions people have drowned.</p>	<p>Tells people don't let the rain at the trailhead from dissuading you from hiking, unless the streams are flooding over.</p> <p>Informed about permit requirements for anything past Hanakapia Beach.</p>

Summaries of Hiking and Island Guidebooks

<p>Hawaii-The Rough Guide Kalalau, Kauai</p> <p>Rating: None given Distance: None given Time: None given Elevation: None given Equipment: None given</p>	<p>Mentions there is no food or water available at Ke'e or on the trail, therefore bring enough water.</p> <p>Warns the path is rugged and varies from slippery clay to shifting sand, therefore wear solid foot ware.</p> <p>Warns the trail rises and falls.</p> <p>Warns that parking over night while camping is not a good idea, because it is a high theft area.</p>
<p>The Unofficial Guide to Hawaii, 1st edition: Kalalau, Kauai</p> <p>Rating: None given Distance: Entire hike to Kalalau 11 miles Time: None given Elevation: None given Equipment: None given</p> <p>Warns this trail is not recommended for novice hikers.</p> <p>Warns the only facility at Kalalau is toilets and water from Hoolea Falls. Suggests bringing own water.</p> <p>Warns that swimming conditions are best during the summer.</p>	<p>Informs that Captain Zodiac is only available during summer months to shuttle people in and out.</p> <p>Provides information on permits.</p> <p>Mentions nudity is illegal, but accepted at Kalalau.</p>
<p>The Best Places to Kiss in Hawaii Kalalau, Kauai</p> <p>Rating: Not given Distance: 4 miles roundtrip, 4 more miles to falls and back to beach. Time: Not given Elevation: Not given Equipment: Suggests wearing appropriate shoes (it can get wet)</p> <p>Warns that this trail is for the physically fit, due to the fairly steep climb.</p> <p>Recommends bringing drinking water and snacks</p>	<p>Suggests that you can hike all the way to Kalalau in 2-3 days; depending on your level of expertise.</p> <p>Advises calling the Department of State Parks for free overnight permits.</p>

KEAHUA ARBORETUM

<p>Ultimate Kauai, 3rd edition Keahua, Kauai</p> <p>Rating: None given Distance: None given Time: None given Elevation: None given Equipment: None given Warning: None given</p>	<p>Recommends “Kauai Trails” by Kathy Morey for a book specifically on hiking. Also recommends contacting the Division of State Parks at 3060 Ewa Street, Room 306 or the Division of Parks and Recreation at 4444 Rice Street, #130 if planning to do a lot of hiking.</p> <p>Doesn’t mention Keahua except to park there to hike Kuilau Ridge or the Powerline trail.</p> <p>Recommends a “Jungle Hike”, which I believe is to “Blue Hole”. Says to avoid the sign that says 4WD only and to attempt the drive anyway. They direct drivers along the forks by using the mileage gage.</p>
<p>Kauai Trailblazers Keahua, Kauai</p> <p>Rating: None given Distance: 1 mile trail that encircles the ground Time: None given Elevation: None given Equipment: None given Warnings: Footing can be slippery</p>	<p>Best enjoyed in drier conditions.</p> <p>Gives directions to Kuilau Ridge Trail and the Powerline Trails.</p>
<p>Fodor’s 2001 (all islands) Keahua, Kauai</p> <p>Rating: None given Distance: None given Time: None given Elevation: None given Equipment: None given Warnings: None given</p>	<p>Under “Good Drives”: Gives directions to Keahua from Opaeka’a Falls. Describes it as a good picnic area on a riverbank that comes equip with a dangling rope. Advises to take your bathing suit.</p>
<p>Lonely Planet Hawaii (all island) Keahua, Kauai</p> <p>Rating: None given Distance: None given Time: None given Elevation: None given Equipment: None given Warnings: None given</p>	<p>“Hiking” section: Mentions Kalalau, Koke’e, Alakai Swamp as great hikes on Kauai. Also mentions Keahua as the starting point for a couple of scenic ridge top trails, including the Powerline trail, and the Kuilau Ridge Trail, but does not discuss Arboretum in detail.</p>

<p>Kauai's Underground Guide 16th edition: Keahua, Kauai</p> <p>Rating: None given Distance: None given Time: None given Elevation: None given Equipment: None given Warnings: None given</p>	<p>Recommend <i>Hiking Kauai</i> by Bob Smith, www.mauui.net/~hionfoot or <i>Kauai Trails</i> by Kathy Morey.</p> <p>Recommends when on Kauai call the Division of Forestry for a report on current trail conditions. If you visit their office you can receive a free topography map. Mentions that you can also call Kauai Visitor's Bureau for advise of arranging hiking trips or guides.</p>
<p>Kauai Trails Keahua Arboretum</p> <p>Rating: Very easy Distance: Negligible Time: ¼ hours Elevation: Negligible Equipment: Recommends tennis shoes Warnings: Non Given</p>	<p>Did not mention swimming in stream or give any warning.</p>
<p>Hawaii Off the Beaten Track Keahua Arboretum</p> <p>Rating: None given Distance: None given Time: None given Elevation: None given Equipment: None given Warnings: None given</p>	<p>Mentions it is a good place to stretch your legs and stroll through a nature path along a stream.</p> <p>Suggests going to Kuilau Ridge if you want to hike.</p>
<p>Hawaii: The Rough Guide Keahua, Kauai</p> <p>Rating: None given Distance: None given Time: None given Elevation: None given Equipment: None given Warnings: None given</p>	<p>Describes Keahua as a stretch of woodland and meadows and is nice for a stroll.</p> <p>Mentions it in reference when giving directions to the hike on the dirt road to the base of Mt. Waialeale. Says that it is not possible to go any further than the dam.</p>

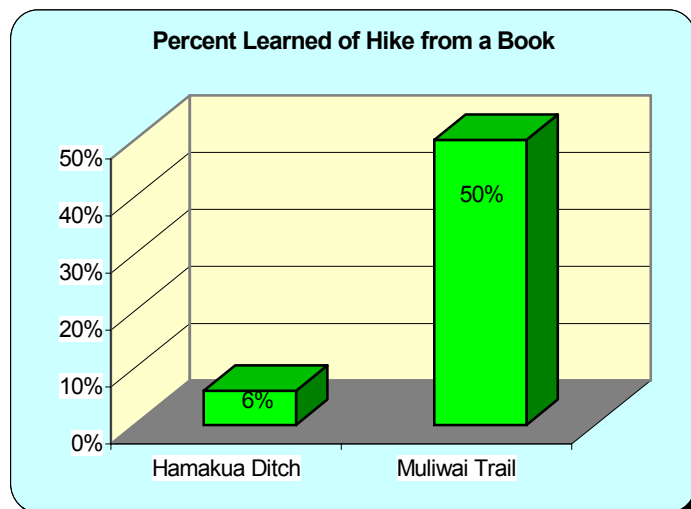
PIHEA TRAIL

<p>Lonely Planet-Hawaii Pihea Trail</p> <p>Rating: None given Distance: 1 3/4 mile one-way Time: None given Elevation Gain: None given Equipment: None suggested</p>	<p>Book says the trail is moderately easy until the steep scramble up to the lookout after the first mile. The trail offers some great cliff-top views. The trail also heads down into the swamp area and reaches other trails at about 1 3/4 miles in.</p> <p>The book mentions that there are hunters in the park and that it is recommended that hikers wear bright colors.</p>
<p>Ultimate Kauai Pihea, Kauai</p> <p>Rating: None given Distance: 8 miles roundtrip. Time: None given Elevation: None given Topography map: None given Equipment: None given Warning: None given</p>	
<p>Hawaii From \$70 A Day, Frommers 32nd Edition, Pihea, Kauai</p> <p>Rating: None given Distance: 7.4 mile round-trip hike Time: 4 hours in and out Elevation: None given Equipment: None given Warning: None given</p>	<p>Informs that this is the parks flattest trail, but still strenuous.</p> <p>Hike includes the Alakai Swamp</p>
<p>Kauai Trailblazers Pihea, Kauai</p> <p>Rating: None given Distance: 2 miles Time: 4 hours in and out Elevation: 4,280 feet, the highest point along the rim of the Kalalau Valley Equipment: Recommends a hiking pole.</p>	<p>Warns that is can be muddy</p>

Summaries of Hiking and Island Guidebooks

<p>Kauai Trails Pihea, Kauai</p> <p>Rating: Moderate Distance: 4 ¼ miles Time: 2 hours Elevation: 460 feet Equipment: Hiking boots recommended Warning: None Given</p>	<p>Gives directions at the junction, so people don't get lost.</p> <p>Provided a map of the trail system (Pihea meeting the Alakai Swamp)</p>
<p>Sierra Club Pihea, Kauai</p> <p>Rating: Moderate Distance: Provided distance for the loop: 11.5 miles Time: None given Elevation: None given Equipment: None given Warning: None given</p>	<p>Described this hike as a loop starting at Koke'e and walking along Camp 10 Road to the Pihea Trail sign, next to the Puu O Kila lookout and then to the Kaluapuhi trail.</p>
<p>Hawaii: The Rough Guide Pihea, Kauai</p> <p>Rating: None given Distance: None given Time: 1 hour to Puu O Kila lookout Elevation: None given Equipment: None given Warning: None given</p>	<p>Suggests you can do a short in and out to view Kalalau Valley and Alakai Swamp, or choose a more demanding trek to the swamp.</p>

Summaries of Hiking and Island Guidebooks



Guidebooks Used on the Big Island Trails

One question on our survey asked hikers how they learned about the trail. On Hawaii 70% learned of the trail by “word of mouth”; 11% from a guidebook; 7% were local residents and simply knew about it as local knowledge; and 7% from their hotels. Of the hikers that learned of the trail from a book, the following is a list of the books various groups mentioned. Other groups did not remember or did not comment on the name of the book they may have used. While individual information was recorded, groups of hikers usually used the same books and were counted as one. The following lists are ordered from most to least reported.

Hamakua Ditch (2 groups)

Big Island Revealed

Ainapo

None

Muliwai (3 groups)

Big Island Revealed
Backpacker Magazine

Kahualea

None

HAMAKUA DITCH

<p>Hawaii The Big Island Revealed Hamakua Ditch, Hawaii</p> <p>Rating: None Given Distance: None Given Time: 40 minutes one-way Elevation: None Given Equipment: None Given Warning: 2,000 ft cliff at lookout</p>	<p>The book suggests hiking in the morning because of climatic conditions in this area, namely fog and rain. It describes the hike as a walk to a lookout or “sheer drop-off” with a view of a “superb waterfall.”</p>
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MULIWAI

<p>Hawaii The Big Island Revealed Muliwai, Hawaii</p> <p>Rating: None Given Distance: None Given Time: More than 1 day trip Elevation: None Given Equipment: None Given Warning: None Given</p>	<p>The book warns that this is not a hike to attempt to go in and out in one day. It also informs hikers that you need a permit to camp.</p>
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<p>Hawaiian Hiking Trails Muliwai Trail, Hawaii</p> <p>Rating: Hardest Distance: 18 miles (RT) Time: 2-3 days, 9 hr. in and 10 hr. out Elevation: 1350 feet Equipment: Boots with new tread, mosquito repellent</p> <p>Warns to use care when camping and hiking since there is extreme danger of fire along the trail.</p>	
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<p>Hiking Hawaii Muliwai Trail, Hawaii</p> <p>Rating: Difficult Distance: 9 miles Time: 7 hours Elevation: None Given Equipment: None Given Warning: Previous rock slides can make it more difficult and slower</p>	<p>The book explains the difficulty level of the trail, and the fact that you will have to cross fourteen gulches during the hike. It also tells you to contact Hamakua Sugar Company for a camping permit.</p>
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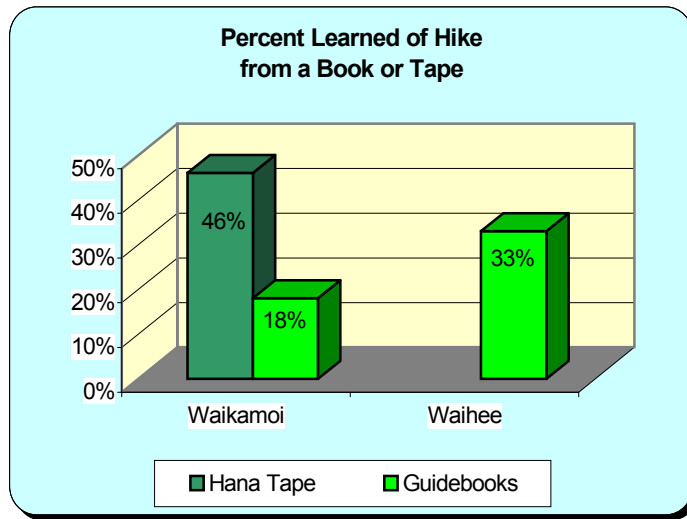
KAHAUALEA, HAWAII

<p>Hawaii The Big Island Revealed Kahaulea, Hawaii</p> <p>Rating: None Given Distance: 4 ½ miles one-way Time: None Given Elevation: None Given Equipment: None Given Warning:</p>	<p>This book describes that this trail is “not well known,” but will lead you to the best view of Pu’u O’o vent, a still active vent. The book warns hikers not to go past the end of trail because: wind shifts could blow fatal concentrated sulfur dioxide fumes towards you, or rain could cause a cloud which could disorient you, or the lava field could give way and drop you into a lava lake below...”a real bummer.”</p>
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AINAPO, HAWAII

<p>Hawaii The Big Island Revealed Ainapo, Hawaii</p> <p>Rating: “tough” Distance: (3-5 days: began at diff. Trailhead) Time: (38 miles round-trip) Elevation: None Given Equipment: None Given Warning:</p>	<p>This book describes a hike to the Mauna Loa Summit, which appears to travel along Ainapo for part of the way. It begins much farther away however, at the end of Mauna Loa Scenic Road. This explains the differences in distance and time compared to only the Ainapo Trail.</p>
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Summaries of Hiking and Island Guidebooks



Guidebooks Used on Maui Trails

One question on our survey asked hikers how they learned about the trail. On Maui 44% from a Hana tape (for the Waikamoi Ridge Trail); 19% from a guidebook; 13% saw it as driving; 11% learned of the trail by “word of mouth”; and 5% from their hotels. Of the hikers that learned of the trail from a book, the following is a list of the books various groups mentioned. Other groups did not remember or did not comment on the name of the book they may have used. While individual information was recorded, groups of hikers usually used the same books and were counted as one. The following lists are ordered from most to least reported.

Waikamoi Ridge Trail (21 groups)

Road to Hana Cassette
Maui Hikes
Hiking Maui
Backroads Maui
Lonely Planet
Fodor's
Be Your Own Tour Guide
Daily Planet
Drive Maui map
AAA Tour Book

Waihee Ridge Trail (2)

Hiking Maui

WAIKAMOI

<p>Frommers Maui 2001 Waikamoi Ridge, Maui</p> <p>Rating: Easy loop Distance: 3/4 mile Time: None given Elevation Gain: None given Equipment: None suggested</p>	<p>Describes the trail as an easy loop for the family. Mentions that the trail has rest rooms, a pavilion, picnic tables, and a barbeque area.</p>
<p>Lonely Planet - Hawaii Waikamoi Ridge Trail, Maui</p> <p>Rating: Easy trail Distance: 3/4 mile Time: None given Elevation Gain: None given Equipment: None suggested</p> <p>Warns to beware of metal spikes and tree roots along the path that can trip a hiker, especially if hiking with children.</p>	<p>Comments: The trail is described as a "peaceful trail."</p>
<p>Hiking Maui Waikamoi, Maui</p> <p>Rating: None given Distance: 1 mile Time: 1 1/2 hours Elevation Gain: 300 ft Equipment: Walking shoes/boots</p> <p>It cautions that the trail can be slippery when wet and that from the second shelter (at the lookout) to the trailhead is a steep decent.</p>	<p>Comments: The book did not say to bring water, food or rain gear on this hike. It highlights the features of the trail as "fruits and views."</p> <p>On a small map of the trail, the book shows some falls. However, a hiker would obviously have to leave the trail to reach them.</p> <p>No permission is needed to hike.</p>
<p>Maui Trails Waikamoi, Maui</p> <p>Rating: Very easy (less than 1 mile) to easy) 1-2 miles) Distance: 1/3 to 1 1/8 miles to top picnic area Time: 11 minutes to 1/2 hour Elevation Gain: 100 to 205 feet Equipment: Walking shoes Warnings: Mosquitoes, Trailhead in unmarked, Slippery, Steep drop-off</p>	

WAIHEE, MAUI

Hiking Maui Waihee Ridge Trail, Maui Rating: Strenuous Distance: 3 miles Time: 2 hours Elevation Gain: 1500 ft Equipment: Rain gear, boots, water and food	The book says that the trail is marked every 1/4 mile. It is described as steep, heavy foliated, wet, and muddy in the switchback ascent. The trail is under the management of DLNR and is regularly maintained. No permission is needed to hike.
Frommers 2001 Waihee Ridge Trail, Maui Rating: Strenuous Distance: 3-4 miles Time: 3-4 hours round-trip Elevation Gain: 1500 ft Equipment: water, lunch	The book instructs hikers to go on this hike on a dry day. It explains that the switchbacks can be muddy and wet, and steep. It also describes a flat area near the top which can be swampy and impassable if there have been heavy rains.
Lonely Planet-Hawaii Waihee Ridge Trail, Maui Rating: Steep, steady climb, not overly strenuous Distance: 3 miles one-way Time: None given Elevation Gain: 1563 ft Equipment: None suggested	The trail is described as a "seldom trodden route." It mentions that the trail is marked with a Na Ala Hele sign and is a well-defined trail.
Hikers Guide to the Hawaiian Islands Waihee Ridge, Maui Rating: Novice Distance: 5 miles Time: None Given Elevation Gain: 1500 ft Equipment: None Given	Expect misty rain The trail is well graded and maintained. It is a steady climb, but rarely steep.

Summaries of Hiking and Island Guidebooks

Maui Trails Waihee Ridge Trail, Maui		
Rating:	Moderate (2-5 miles)	Suggests getting an early start
Distance:	4 ½ mile	
Time:	2 ¼ hours	The fruit near the fence is poisonous (apple of Solom) – Do not eat!
Elevation Gain:	1400 ft	
Equipment:	Hiking boots	Mileage signs are wrong. The trail is not as long as it says.

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New York, NY 10019

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362 Selby Lane
Atherton, CA 94027

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Summaries of Hiking and Island Guidebooks

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Seattle WA 98168

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Physical Hazard Summary

Trail	HT1	HT2	HT3	HT4	HT5	Stream Crossings	% Landslide Exposure	Sun exposure	Spur Trails	Shared Use Y/N	Trail Surface	Signage
Diamond Head	0	0	0	0	0	0	15	yes	some	n	fair	good
Manoa Falls	0	3	5	1	0	0	10	no	many	n	fair	good
Maunawili Falls	0	0	9	0	0	5	5	no	many	y	good	fair
Nakoa	0	1	15	10	4	2	5	no	many	y	good	fair
Awaawapuhi	1	11	20	2	0	0	5	partial	some	y	good	fair
Kalalau	0	0	1	0	0	2	15	yes	some	n	poor	fair
Keahua Arboretum	0	0	0	0	0	0*	0	no	none	n	fair	fair
Pihea	0	0	1	0	0	0	5	yes	some	n	poor	good
Ainapo	0	2	0	0	1	0	0	yes	many	y	fair	fair
Hamakua Ditch	0	1	7	0	0	0	30	partial	some	y	good	poor
Kahaualea	0	0	0	0	0	0	0	yes	many	y	poor	poor
Muliwai	0	2	3	1	0	2†	15	partial	some	y	good	poor
Waihee	0	0	0	0	0	0	5	yes	some	n	good	good
Waikamoi	1	7	8	1	1	0	0	yes	some	n	fair	fair

* stream does not cross trail, but is used as an attraction.

† Trail does not cross streams, but must be forded to reach trailhead on each end.

Appendix E: Physical Assessment Information

Physical Hazard Summary

Appendix F: References

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